



University of Nizwa

College of Engineering and Architecture

The 11th National Symposium on Engineering Final Year Projects (**online**)

10<sup>th</sup> May 2022

### **Symposium Time Schedule**

10:00 am	Opening ceremony in room 9-4 (virtual exchange program)
10:00-10:05 am	Holy Quran
10:05-10:10 am	Welcome address by Dean of College of Engineering and Architecture
10:10-10:20 am	University Short Film
10:20-10:45 am	Key Note Speaker: Dr. Abdulaziz Rashid Al Hashimi Reservoir Engineer Petroleum Development Oman Lecture title: Highly Demanded Advanced Skills in Industry

### **Sessions – On-line**

11:00 -01:30 pm	Sessions: (1 – <b>10</b> ) ( <b>12 minutes</b> for each presentation + <b>6 minutes</b> Q/A)
2:00-02:30 pm	Awards for the best papers and Closing Ceremony

### **Important notes:**

- Please join the **opening ceremony** (10:00 – 11:00 am) and **closing ceremony** (02:00 – 02:30 pm) through accessing the link in the details below:

<https://meet.google.com/btf-qymy-twh>



- Please scroll down to find the access link to your session (Rooms 1 -10), as per your specialty



# The 11<sup>th</sup> National Symposium on Engineering Final Year Projects

## Shared File

Tuesday, May 10, 2022

Room #1- Civil Engineering (S1)				
S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	2	STUDY EFFICIENCY OF USING GGBS MATERIALS AS REPLACEMENT OF CEMENT IN THE CONCRETE	Adbulaziz Fahad Bari Alnaimi and Hussin Yahia	hyahia@mec.edu.om 15F14824@mec.edu.om
2	5	MANUFACTURING HEMPCRETE BLOCKS AS A SUSTAINABLE ALTERNATIVE TO CONCRETE	Zeyad Abduljalil Al Balushi, Zeinab Abayazid Zain and Hussin Yahia	14F12993@mec.edu.om 19S18910@mec.edu.om hyahia@mec.edu.om
3	23	CORRELATION BETWEEN STABILIZED SOIL PROPERTIES AND STABILIZER CONTENT	Noor Abri, Rihab Al Yahmadi and Subhi Ali	10006837@uofn.edu.om 14277366@uofn.edu.om subhi@unizwa.edu.om
4	25	Treatment of the Sea Water Mixed Concrete with Palm Leaves Ash	Ahmad Salah Nassef, Manar Alfarsi, Shouq Alwahibi, Shouq Aljabri and Aisha Al-Masaoudi	ahmed.sn@uob.edu.om 1810025@uob.edu.om 1710507@uob.edu.om 1710054@uob.edu.om 1710526@uob.edu.om
5	48	Simulation Study on Flexural Behavior of High-Performance Reinforcement Concrete beam Under Static Loading	Omar Abdelaziz Salam Qadir Bux alias Imran Latif	80984728@uofn.edu.om qadir.omran@unizwa.edu.om nasrellah@unizwa.edu.om
6	55	Using Medical Waste for Improving Concrete Performance	Ahmad Salah Nassef, Asila Al Naqbi, Balaqis Sheibani, Lamyaa Maqbali Buthaina Al Badi	ahmad_nassef@hotmail.com 1710351@uob.edu.om 1710408@uob.edu.om 1710315@uob.edu.om 1710081@uob.edu.om
7	43	Characterization and Stabilization of Al-Khod expansive soil	Al-Hasnaa Al-Adwani	s118826@student.squ.edu.om
8	4	DEVELOPING THE PUBLIC TRANSPORTATION SYSTEM AT MUSCAT INTERNATIONAL AIRPORT	Sulaiman Salim Al- Wahaibi, Yusra Naser Abdelhalim and Hussin Yahia	16F16131@mec.edu.om 19S18602@mec.edu.om hyahia@mec.edu.om

Google Meet joining link

<https://meet.google.com/sba-viue-dzd>

Google Meet joining  
barcode



**Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)**



# The 11<sup>th</sup> National Symposium on Engineering Final Year Projects

Shared File

Tuesday, May 10, 2022

Room #2- Environmental Engineering(S2)

S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	32	TREATMENT OF DOMESTIC WASTEWATER BY USING AZOLLA PLANTS	Balaqis Al-Abri, Noura Al Balushi and Shabib Al Rashdi	balqeesa43@gmail.com noora_sur@hotmail.com shabibalrashdi@nu.edu.om
2	64	Disinfecting Aflaj Water Using Advanced Solar Oxidation Process	Saada saif nasser al maqimi and Sreedhar Reddy	27697955@uofn.edu.om sreedharreddy@unizwa.edu.om
3	56	BIOGAS PRODUCTION POTENTIAL FROM PALM WASTE IN SULTANATE OF OMAN	Manar Al-Jassasi, Shabib Alrashdi and Noura Albalushi	manaraljassasi@gmail.com shabibalrashdi@yahoo.com nouraalbalushi@nu.edu.om
4	1	ASSESSMENT OF COVID 19s IMPACT ON CONSTRUCTION SEMs GROWTH IN SULTANATE OF OMAN	Wesal Khalifa Ali Al-Khanbashi Hussin Yahia	15F14824@mec.edu.om hyahia@mec.edu.om

Google Meet joining link

<https://meet.google.com/cha-vuka-zds>

Google Meet joining barcode



**Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)**



# The 11<sup>th</sup> National Symposium on Engineering Final Year Projects

## Shared File

Tuesday, May 10, 2022

Room #3- Mechanical Engineering

S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	41	Experimentation and Numerical study of Formability in Deep Drawing Process	Fakrudeen Ali Ahamed Jainulabdeen, Mohammed Rashid Said Al-Azwani, Husam Sulaim Khamis Al Suleimani, Amin Gharib Rabi'A Al Siyabi, Tariq Issa Sulaiman Al-Abri, Idris Ibrahim Khalfan Thalith Al Shukaili and Amjad Abdullah Mohammed Al-Suleimani	fakrudeen.ahamed@nct.edu. u.om s22s1742@nct.edu.om s22s17174@nct.edu.om s22s1717@nct.edu.om s22s162206@nct.edu.om s72s161045@nct.edu.om s22s17171@nct.edu.om
2	60	CFD analysis on centrifugal pump for the investigation of variations in discharge and efficiency with respect to the inlet and outlet pressures using two fluids	Nasser Said Nasser Albakri, Hussian Abdullah Ahmed Albalushi, Hamed Salim Hamed Almaawali and Anand Narayanan Nair.	56J1813812@act.edu.om 52S163039@act.edu.om 52S161798@act.edu.om anand@act.edu.om
3	65	CONVERTING WASTE HEAT OF VEHICLES EXHAUST GASES INTO A USEFUL SOURCE OF ENERGY	O. Alsalmi , E. Alsubhi , A. Alhadhrami , A. Al-Janabi	ab.aljanabi@squ.edu.om
4	62	INVESTIGATION ON THE EFFECT OF ASPECT RATIO ON FLEXURAL BEHAVIOR OF ALUMINUM SANDWICH COMPOSITE	Ganesh Radhakrishnan, Al-Haitham Mohammed Sulaiman Al-Hattali, Al Muntaser Nasser Al- Yahyai, Al-Muntaser Nasser Omar Al-Riyami and Al-Muatasim Dawood Al-Hadhrami	ganeshrk1982@gmail.com s22s161230@nct.edu.om s72s179@nct.edu.om s22s162688@nct.edu.om s22s1775@nct.edu.om
5	28	COMPARATIVE STUDIES ON CORROSION BEHAVIOR OF LOW CARBON STEEL AND GALVANIZED STEEL IN VARIOUS CONDITIONS	Ifthikhar Al Saadi	iftikhar160111@nu.edu.o m

Google Meet joining link

<https://meet.google.com/mfd-ueft-jvg>

Google Meet joining barcode



**Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)**



**The 11<sup>th</sup> National Symposium on Engineering Final Year Projects**

**Shared File**

**Tuesday, May 10, 2022**

**Room #4- Elect&Comp(S1)**

S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	6	Toward Meeting the Electric Needs of Oman in 2025	Osama A. Marzouk* Ahmed A. Arman Marwan M. Al Saadi Ahmed S. Al-Maqbali Sulaiman S. Al Sharji	osama.m@uob.edu.om
2	27	PIEZOELECTRIC SENSOR IN ENERGY HARVESTING TECHNOLOGY	Mohammed Ghusn Yahya Al Hinaey , Mohamed Yousuf.S	mohamed.yousuf@uinizwa.edu.om
3	38	EXPERIMENTAL INVESTIGATION OF THE PERFORMANCE OF A SOLAR STILL WITH ROTATING CYLINDER	Ibrahim Abdallah Hilal Sulaiman Al-Kharusi*, Issa Khalifa Darwish Masoud Al Fajarani, Khalaf Salim Abdullah Said Al Jarradi, Mohan Chandrasekharan Chandra	52S15189@act.edu.om
4	45	Smart Solar Power Station for Isolated Houses in Oman	Badar Nasser Sulaiman Al-Habsi and Vineeth V V	vineeth@ict.edu.om
5	50	TECHNO ECONOMIC FEASIBILITY ANALYSIS OF A SOLAR PHOTOVOLTAIC POWERED AIR CONDITIONING SYSTEM	Manal Khamis Al Shibli , Afrah Khamis Al Aisace, Asila Nasser Al Shibli, Supervisor: Mr. A run S Gopinath	Arun.Gopinath@shet.edu.om
6	29	DESIGN AND IMPLEMENTATION OF A HYBRID SYSTEM	Maryam M. Habash, Yousef A. Mahdi, Ayman I. Ahmed, Fawaz Y. Abdullah, Mohammad T. Yaseen	mtyaseen@uomosul.edu.iq
7	58	SIMULATION OF PROTECTION FUNCTIONS FOR INDUSTRIAL INDUCTION MOTORS	Mohammed H. Al- Nasseri, Mohammed S. Al-Majarfi, Ibrahim N. Al-Sinani, Dr. Razzaqul Ahshan and Dr. Abdelsalam Elhaffar	a.elhaffar@squ.edu.om

Google Meet joining link

Google Meet joining barcode

<https://meet.google.com/aew-wxzn-fnz>



**Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)**



**The 11<sup>th</sup> National Symposium on Engineering Final Year Projects**

**Shared File**

**Tuesday, May 10, 2022**

**Room #5- Elect&Comp(S2)**

S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	52	IoT BASED MULTIPURPOSE REMOTE HEALTH SURVILLANCE SYSTEM	RUWAIDA MOHAMMED SAEED ALKINDI1, YUMNA NASSER SULAIMAN ALJAHWARI1, SINDHU S NAIR*2, MOHAMMED JUBAIR MEERA HUSSAIN2, MAYASA SAID SULIMAN ALKINDI3	sindhu@act.edu.om
2	57	DESIGN AND DEVELOPMENT OF SMART IRRIGATION SYSTEM FOR IMPROVED WATER ENERGY EFFICIENCY	Mansoor Hamed Wani Shamis Al-Jadili Markandan Rengasamy Muthusamy Chethan Godlumane Ramesh Nabhan Mubarak Saleem Saif AL- Saadi Salim Obaid Salim Al Talaih Abdullah Said Rashid AL- Ruzciqi	chethan@ict.edu.om
3	15	A Smart Elevator Control System	Yasmine Salim Al-Housniya, Ibtisam Yaqoob Al Kharusi Dr. Ali A. Titinchi	ali.abdulhafidh@unizwa.edu.om
4	24	Comparison of different Median Filters in removal of high density noise	Amira Alriyami Samiya Al Busaidi Mithaa Al Nasseri	mohammed.nasar@nct.edu.om
5	30	DISEASE DETECTION SYSTEM BASED ON HUMAN EYE IMAGES	Saif S. Mahmood, Mohammed M. Qasim, Fawaz Y. Abdullah, and Mohammed T. Yaseen	mtyaseen@uomosul.edu.iq
6	39	WEB AND ARDUINO BASED EXCLUSIVE COVID-19 PATIENT MONITORING AND TRACKING	NASHUA MOHAMMED ABDALLAH KARSHUB ZAHRA SALIM MOHAMMED SAID AL	mujeeb@ict.edu.om
7	66	NUMERICAL AND EXPERIMENTAL ASSESSMENT OF INTEGRATED ANTENNAS WITH PHOTOVOLTAIC SOLAR CELLS	Ahmed Al-Alawi, Said Al- Gheilani, Ahmed Al-Zeidi and Mohammed M. Bait- Suwailam	msuwailam@squ.edu.om

Google Meet joining link

<https://meet.google.com/zdp-wgwg-yuc>

Google Meet joining  
barcode



**Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)**



# The 11<sup>th</sup> National Symposium on Engineering Final Year Projects

## Shared File

Tuesday, May 10, 2022

Room #6- Elect&Comp(S3)

S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	34	TOWARD SMART CITIES IN OMAN: SMART BUS STATION OVER IOT TECHNOLOGY	Taif Al-azizi – Sura Al-yarubi – Hala Al-sulaimi – Bushra Al-hadrami – Dr. Wisam Al-Azzo	wisam.alazzo@nct.edu.om
2	31	Smart Glasses System for Car Drivers Safety	Abdulaziz S. Abdulhamid, Nori R. Nori, Fawaz Y. Abdullah, Mohammad T. Yaseen	mtyaseen@uomosul.edu.iq
3	59	HEALTH MONITORING SYSTEM USING IoT	Venkat Garagaparthi, Lakshmi Garagaparthi, Atef Abusalim	atef@unizwa.edu.om
4	40	Raspberry Pi Based Image Analysis Technique to Determine the Ripeness and Grading of Tomatoes	Rajwa Yousuf AL-rashdi Ja	jamaludeen@ict.edu.om

Google Meet joining link

<https://meet.google.com/szi-kbwe-xze>

Google Meet joining barcode



**Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)**



# The 11<sup>th</sup> National Symposium on Engineering Final Year Projects

Shared File

Tuesday, May 10, 2022

Room #7- Chemical&Petr(S1)

S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	9	FLOW VELOCITY SIMULATION OF DIFFUSER AUGMENTED WIND TURBINE	Salim Abdullah Muftah Al Haddadi, Othman Abdullah Khalifah Al Maimani, Ayoub Murad Hassan Al Balushi , Marwan Huwaysheh Sulaiyem AlJassasi, Saad A. Mutahser Al Jaberi	saadj.soh@cas.edo.om
2	12	EFFECT OF METALS DOPED TIO2 COMPOSITE ON DEGRADATION OF METHYLENE BLUE	Asila Abdulaziz Al.Shukri, Fatema Abdullah Al.Yaaqubi Salam K. Al-Dawery	salam@unizwa.edu.om
3	13	METHANE PYROLYSIS AND STEAM REFORMING FOR HYDROGEN PRODUCTION USING COLD FLY JET PLASMA.	Ibrahim Mohammed Juma AL-ghafri, Musab Juma Nasib AL-marzoqi	11446864@uofn.edu.om, 11094238@uofn.edu.om
4	14	CLEAN ENERGY FROM PLASTIC: PRODUCTION OF PYROLYSIS OIL FROM PLASTIC WASTE	Anafal Al Araimi, Pradeep Kumar Krishnan	pradeepkrishnan@nu.edu.om
5	16	INTENSIFICATION OF THE GASES PRODUCED FROM H2O-CO2 PLASMA	Muna Musabah ALmamari , Moza Salim Alhasani Dr. Wameath Abdul.Majeed , Dr. Hazim Fhdhil Abbas	<a href="mailto:12977802@uofn.edu.om">12977802@uofn.edu.om</a> , <a href="mailto:14962804@uofn.edu.om">14962804@uofn.edu.om</a>
6	18	PETROLEUM REFINERY WASTE WATER TREATMENT USING SILICA NANOPARTICLES	Amna Wahab Yahya Abdullah Al Rasbil , M. Geetha Devi	14962804@uofn.edu.om
7	19	DEVELOPMENT OF NATURAL DEGRADABLE NANOCAPSULES FOR THE DELIVERY OF ANTIBACTERIAL DRUG	Sara Abdullah Al Shukaili, Rahma Salim Al hashmi, Riham Fairuz Yousuf Fairuz, Geetha Devi	geethadevi@nu.edu.om
8	20	CALCIUM CARBONATE NANOPARTICLE MEDIATED TREATMENT OF GREY WATER	Hajer Ahmed Ali Al-Lezami, Geetha Devi, Khadija Salim Abdullah Al Balushi	geethadevi@nu.edu.om
9	21	REFINERY WASTE WATER TREATMENT USING BIOCHAR DERIVED FROM MUNICIPAL SOLID WASTE	Ilham Shabir Khatry, Faisal Al-Qartoubi, Abdulrahman Al-Jadidi, Geetha Devi	geethadevi@nu.edu.om

Google Meet joining link

<https://meet.google.com/eoa-ikis-wdb>

Google Meet joining barcode



Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)





# The 11<sup>th</sup> National Symposium on Engineering Final Year Projects

Shared File

Tuesday, May 10, 2022

Room #8- Chemical&Petr(S2)				
S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	22	CORROSION INHIBITION STUDIES OF MILD STEEL PIPE USING NANO THIN FILMS	Hebatallah AL Jabri, Geetha Devi	geethadevi@nu.edu.om
2	44	COLUMNS STUDIES ON SORPTION OF ORGANIC COMPOUNDS FROM INDUSTRIAL WASTEWATER USING GREEN ALGAE ULVA LACTUCA	Naama Al Hashemi, Nabila Al Rashdi	Useroman99@gmail.com, nabilaalrashdi@nu.edu.om
3	46	TROUBLESHOOTING OF THE GAS SWEETENING UNIT BY REDUCING FOAMING IN ABSORBER	Khalid Juma Hamood A-Kharusi, Geetha Devi	geethadevi@nu.edu.om
4	47	PRODUCTION OF BIODEGRADABLE PLASTIC FILM FROM WASTE BANANA (MUSA) PEELS	Amna Saud Alharrasi, Varghese Manappallil Joy	amna160236@nu.edu.om,
5	49	TREATMENT OF OIL PRODUCED WATER FROM OIL WELLS USING INNOVATIVE AGRO RESIDUE-BASED TECHNOLOGY	Wadha Said Al-muqbali, Maather Mahfud Al-saadi, Dr.Rajamohan Natarajan	Wadhashihab@gmail.com, Mat.alsaadi@gmail.com, Natrajmohan@gmail.com
6	51	BIOLOGICAL TREATMENT OF WASTE WATER AND STUDY THE POTENTIALITY OF BIOGAS PRODUCTION	Noor Al-Shukail, Noura Al Balushi, Shabib Al Rashdi	noora_sur@hotmail.com
7	53	ISOLATION AND CHARACTERIZATION OF CELLULOSE NANOFIBER OBTAINED FROM AGRICULTURE WASTE	Aasma Abdul Qadeer, Shabib Al Rashdi, Noura Al Balushi	aasma170017@nu.edu.om, nouaalbalushi@nu.edu.om, shabibalrashdi@nu.edu.om, shabibalrashdi@yahoo.com
8	54	ISOLATION AND CHARACTERIZATION OF HEMICELLULOSE A AND B FROM DATE PALM EMPTY FRUIT BUNCH BY POTASSIUM HYDROXIDE EXTRACTION	Namariq Ally, Shabib Al Rashdi, Noura Al Balushi	shabibalrashdi@yahoo.com

Google Meet joining link

<https://meet.google.com/zfz-mmih-bks>

Google Meet joining barcode



Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)



## The 11<sup>th</sup> National Symposium on Engineering Final Year Projects

### Shared File

**Tuesday, May 10, 2022**

Room #9- Architecture(S1)

S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	7	Marine Life Exhibition	Dr. Ayman Khalil, Dr. Mohamed Abdelhady, Maather Khalid Al Jabri	srmMrs2003@yandex.ru maather.eng@gmail.com
2	8	STEM Center for the Development of Children's Talents in Muscat	Dr. Mohamed Abdelhady, Khulood Said AL Amri	srmMrs2003@yandex.ru akalamri127@gmail.com
3	10	Quriyat ITC Project On the coast of Quriyat near the port of Quriyat in the Governorate of Muscat	Dr. Mohammed Faisal Al Kazee, Sumaya Salim Sulaiman al Rawahi	faisal.kazey@unizwa.edu.om
4	11	"COMMERCIAL MIXED-USE BUILDING" - COMMERCIAL & ADMINISTRATIVE MIXED-USE BUILDING IN AL-QURUM	Dr. Mohammed Faisal Al Kazee, Marwa Abdullah AL-Butrani	faisal.kazey@unizwa.edu.om
5	26	SUSTAINABLE NEIGHBOURHOOD DESIGN PROJECT - MUSCAT, OMAN	Sawsan Domi, AlBayan AlShukaili	sawsan.m@uob.edu.om

Google Meet joining link

<https://meet.google.com/tdn-xtvw-eia>

Google Meet joining  
barcode



**Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)**



**The 11<sup>th</sup> National Symposium on Engineering Final Year Projects**

**Shared File**

**Tuesday, May 10, 2022**

Room #10- Architecture(S2)

S. No.	Paper ID	Title of the paper	Authors Name	Authors Emails
1	33	The Diamond of Sunrise - A Beachside Resort Project at Ras Al Had	Mr. Samir Al Qeisi, Bushra Badar AL-kalbani	samir.alqeisi@unizwa.edu.om
2	35	Blue Ocean Paradise - A Touristic Resort at Ras Al-Shajar	Mr. Samir Al-Qeisi, Safa Ali Al-Maqaimi	samir.alqeisi@unizwa.edu.om
3	36	"COMMERCE, LEISURE. AND CULTURE " A MIXED-USE CENTER ON MAZOOON STREET	Mr. Samir Al Qeisi, SAFA HAMOOD AL-TOUBI	samir.alqeisi@unizwa.edu.om
4	37	"La Mosquée Transparent" - Marseille Islamic Cultural Centre	Mr. Samir Al-Qeisi, Safa Nasser Ali Alazwani	samir.alqeisi@unizwa.edu.om
5	63	AI MEHWAR CONSULTANCIES OFFICE	Dr. Luai Al jubori, Khulood Said Al-hadrami	<a href="mailto:luai@unizwa.edu.om">luai@unizwa.edu.om</a>

Google Meet joining link

<https://meet.google.com/kgw-fkkv-ppe>

Google Meet joining barcode



**Note: Paper should be given no more than 18 minutes for presentation (12 minutes presentation + 6 minutes Q/A)**