

University of Nizwa - College of Engineering and Architecture
12th National Symposium on Final Year Projects (12NSEFYP), 8 May 2023

Oral sessions, classified as:

(1) Chemical, Biological, Petrochemical and Petroleum Engineering

(2) Industrial & Manuf. Eng., Energy Eng., Material Sci. Eng., Power Plants, Mechanical & Mechatr. Eng.

(3) Electrical, Comp., Commun., Electronics Eng. + Computer sciences

(4) Civil and Environmental Engineering

Venue: Al-Mashariq building (Hall 4)

| Serial No. | Paper No. | Paper title | Corresponding author email | Session Classification | Session No. | Room No. | Session time slot | Committee member |
|------------|-----------|---|--|------------------------|-------------|----------|-----------------------|------------------|
| 1 | 5 | OPTIMIZATION OF DOMESTIC/INDUSTRIAL WASTEWATER TREATMENT APPLYING ULTRA-FINE BUBBLES OZONATION SCHEME | 23752362@uofn.edu.om | 1 | 1 | 1 | 12:00 noon – 01:15 pm | Dr. Qazi |
| 2 | 11 | TREATMENT OF PRODUCE WATER USING ACTIVATED CARBON PREPARED FROM SEWAGE SLUDGE | 18113403@uofn.edu.om | 1 | 1 | 1 | 12:00 noon – 01:15 pm | Dr. Qazi |
| 3 | 31 | CONVERSION OF CAPTURED CO2 TO VALUE ADDED PRODUCT IN OMAN | s122066@student.squ.edu.om | 1 | 1 | 1 | 12:00 noon – 01:15 pm | Dr. Qazi |
| 4 | 32 | Production of Quick Burning Charcoal | 13817561@uofn.edu.om | 1 | 1 | 1 | 12:00 noon – 01:15 pm | Dr. Qazi |
| 5 | 34 | Production Of Green Hydrogen by Using Alkaline Electrolytic Cell | nassr.3lsalmi@gmail.com | 1 | 2 | 1 | 02:15 – 03:30 pm | Dr. Qazi |
| 6 | 39 | SYNTHESIS OF ALUMINIUM OXIDE NANO PARTICLES FROM WASTE ALUMINIUM FOIL FOR CORROSION CONTROL APPLICATIONS | geethadevi@nu.edu.om | 1 | 2 | 1 | 02:15 – 03:30 pm | Dr. Qazi |
| 7 | 46 | PRODUCTION OF CELLULOSIC ETHANOL FROM THE FERMENTATION OF DATE PALM FRONDS WASTE | munther1999@hotmail.com | 1 | 2 | 1 | 02:15 – 03:30 pm | Dr. Qazi |
| 8 | 52 | Study of mechanical and thermal properties of epoxy/MMT nanocomposite | zainabjumah@outlook.com | 1 | 2 | 1 | 02:15 – 03:30 pm | Dr. Qazi |
| 9 | 55 | EFFECT OF ACTIVATED SLUDGE ON THE COMPOSTING OF DATE PALM WASTE | 12s17224@stu.hct.edu.om | 1 | 3 | 1 | 03:45 – 05:00 pm | Dr. Qazi |
| 10 | 66 | METHANE DECOMPOSITION USING NON-THERMAL PLASMA FOR HYDROGEN PRODUCTION | 21405157@uofn.edu.om | 1 | 3 | 1 | 03:45 – 05:00 pm | Dr. Qazi |
| 11 | 21 | DESIGN AND FABRICATION OF POLYURETHANE BELT OIL SKIMMER | marwa.alnuumani@nct.edu.om | 1 | 3 | 1 | 03:45 – 05:00 pm | Dr. Qazi |
| 12 | 30 | THE LIVE DESIGN OF DARCY'S LAW | 150078@uotechnology.edu.iq | 1 | 3 | 1 | 03:45 – 05:00 pm | Dr. Qazi |
| 13 | 26 | Fabrication of Smart Pantograph Engraver | sabareesaan.jayabalan@nct.edu.om | 2 | 1 | 2 | 12:00 noon – 01:15 pm | Dr. Qazi |
| 14 | 38 | DESIGN AND FABRICATION OF MULTI-PURPOSE SIEVING MACHINE | sajith.ej@gmail.com | 2 | 1 | 2 | 12:00 noon – 01:15 pm | Dr. Qazi |
| 15 | 43 | SYNTHESIS AND NOVEL DEVELOPMENT OF METAL MATRIX COMPOSITE THROUGH COMPUTERIZED STIR CASTING PROCESS | pradeepkrishnan@nu.edu.om | 2 | 1 | 2 | 12:00 noon – 01:15 pm | Dr. Qazi |
| 16 | 13 | Early Detection of Defects in Solar PV Components using UAV-based Ultraviolet Imaging and Machine Learning | muralikrishna.boddu@shct.edu.om | 2 | 1 | 2 | 12:00 noon – 01:15 pm | Dr. Qazi |
| 17 | 42 | Feasibility Study of Carbon Capture and Storage Technologies for Greenhouse Gas Mitigation in Oman | mohammed200516@nu.edu.om | 2 | 2 | 2 | 02:15 – 03:30 pm | Dr. Qazi |
| 18 | 56 | Biodegradability rate of petroleum wastewater determines Mechanisms in microbial fuel cell for the current production | anwar.ahmed@unizwa.edu.om | 2 | 2 | 2 | 02:15 – 03:30 pm | Dr. Qazi |
| 19 | 70 | Processing Composite Material from Date Tree Leaves and Fibers | saatiya@gmail.com | 2 | 2 | 2 | 02:15 – 03:30 pm | Dr. Qazi |
| 20 | 73 | GREEN SYNTHESIS OF SILVER NANOPARTICLES FROM MESQUITE TREE LEAVES FOR OILY WASTEWATER TREATMENT | geethadevi@nu.edu.om | 2 | 2 | 2 | 02:15 – 03:30 pm | Dr. Qazi |
| 21 | 41 | FABRICATION OF MULTIPURPOSE ADJUSTABLE CHAIR FOR A FIRST AID ACTIVITY | prabhakran.d@nct.edu.om | 2 | 3 | 2 | 03:45 – 05:00 pm | Dr. Qazi |
| 22 | 61 | Design and Development of an Innovative Date Fruit Removal Mechanism to Remove the Boiled Dates from the Marajel (Boiling Pot) in the Tabseel Process | vickneshkumar@yahoo.com | 2 | 3 | 2 | 03:45 – 05:00 pm | Dr. Qazi |
| 23 | 65 | AUTOMATIC FLUID FILING LINE BASED ON ARDUINO | ameer.alkhaat@gmail.com | 2 | 3 | 2 | 03:45 – 05:00 pm | Dr. Qazi |
| 24 | 72 | DISINFECTING CLEANING ROBOT | rand.basil@tiu.edu.iq | 2 | 3 | 2 | 03:45 – 05:00 pm | Dr. Qazi |
| 25 | 14 | Machine Learning-based Approaches for Transformer Health Assessment and Fault Prediction | muralikrishna.boddu@shct.edu.om | 3 | 1 | 3 | 12:00 noon – 01:15 pm | Dr. Ali |
| 26 | 18 | SOLAR POWERED IOT BASED FLOOD MONITORING AND ALERTING SYSTEM | s22s17168@nct.edu.om | 3 | 1 | 3 | 12:00 noon – 01:15 pm | Dr. Ali |
| 27 | 19 | IOT BASED SMART HOME AUTOMATION SYSTEM USING NODE MCU | annamalai.muthu@nct.edu.om | 3 | 1 | 3 | 12:00 noon – 01:15 pm | Dr. Ali |
| 28 | 57 | RENEWABLE ENERGY POWERED IOT BASED LAND SLIDE DETECTION AND REPORTING SYSTEM | harisha.karagappa@nct.edu.om | 3 | 1 | 3 | 12:00 noon – 01:15 pm | Dr. Ali |
| 29 | 58 | AN IOT BASED SAFE ASSEMBLY POINTS WITH ALERT SYSTEM | atef@unizwa.edu.om | 3 | 1 | 3 | 12:00 noon – 01:15 pm | Dr. Ali |
| 30 | 9 | 5G Channel Propagation Analysis for MIMO Transceiver Using NYUSIM | coe.19.033@student.uotechnology.edu.iq | 3 | 2 | 3 | 02:15 – 03:30 pm | Dr. Ali |
| 31 | 10 | Design and Simulation of Visible Light Communication(VLC)System | coe.19.006@student.uotechnology.edu.iq | 3 | 2 | 3 | 02:15 – 03:30 pm | Dr. Ali |
| 32 | 12 | Water Body Monitoring Using Earth Observation Satellites | coe.19.027@student.uotechnology.edu.iq | 3 | 2 | 3 | 02:15 – 03:30 pm | Dr. Ali |
| 33 | 49 | AN AUTOMATED SMART MODEL FOR A POULTRY FARM MONITORING AND CONTROL SYSTEM | ali.abdulhafidh@unizwa.edu.om | 3 | 2 | 3 | 02:15 – 03:30 pm | Dr. Ali |
| 34 | 67 | Design and implementation of an intelligent wireless system for industrial applications | mtayaseen@uomosul.edu.iq | 3 | 2 | 3 | 02:15 – 03:30 pm | Dr. Ali |
| 35 | 8 | INNOVATIVE APPROACHES TO ENHANCE THE EFFICIENCY OF FIXED AND MOVING SOLAR PANELS | rishipragnatha@gmail.com | 3 | 3 | 3 | 03:45 – 05:00 pm | Dr. Ali |
| 36 | 16 | Raspberry Pi Based Image Analysis Technique to Determine the Ripeness and Grading of Tomatoes | jam80inn@gmail.com | 3 | 3 | 3 | 03:45 – 05:00 pm | Dr. Ali |
| 37 | 28 | DESIGN A SYSTEM TO TRANSFER ALTERNATING CURRENT IN OPTICAL FIBER USING A LIGHT-EMITTING-DIODE | loe.18.028@student.uotechnology.edu.iq | 3 | 3 | 3 | 03:45 – 05:00 pm | Dr. Ali |
| 38 | 47 | SECRET DATA HIDING IN IMAGES USING MATLAB | mohammed.nasar@nct.edu.om | 3 | 3 | 3 | 03:45 – 05:00 pm | Dr. Ali |
| 39 | 48 | SOLAR POWERED ROAD SECURITY LAMPS WITH SMART SENSORS | bdurai@ict.edu.om | 3 | 3 | 3 | 03:45 – 05:00 pm | Dr. Ali |
| 40 | 3 | A study of Aggregate Properties and Durability in Ad Dakhiliyah Area - Oman | subhi@unizwa.edu.om | 4 | 1 | 4 | 12:00 noon – 01:15 pm | Dr. Qadir |
| 41 | 24 | Management of a water distribution network by coupling QGIS and hydraulic modelling a case study in Sohar area, Oman | 191089@students.su.edu.om | 4 | 1 | 4 | 12:00 noon – 01:15 pm | Dr. Qadir |
| 42 | 35 | USE OF RECYCLED TIRE RUBBER AND FERROCHROME SLAG IN CEMENT MORTAR FOR 3D PRINTING | eng.alhinai99@gmail.com | 4 | 1 | 4 | 12:00 noon – 01:15 pm | Dr. Qadir |
| 43 | 53 | utilizing recycled aggregate concrete in sustainable construction. | 69401868@uofn.edu.om | 4 | 1 | 4 | 12:00 noon – 01:15 pm | Dr. Qadir |
| 44 | 69 | CHARACTERIZATION OF PERVIOUS CONCRETE USING FERROCHROME SLAG AS A COARSE AGGREGATE | s119403@student.squ.edu.om | 4 | 2 | 4 | 02:15 – 03:30 pm | Dr. Qadir |
| 45 | 80 | REDMUD STABILIZED WEAK CLAYEY SOIL AS A SUSTAINABLE SUBGRADE PAVEMENT MATERIAL | binumol.shahulhameed@shct.edu.om | 4 | 2 | 4 | 02:15 – 03:30 pm | Dr. Qadir |
| 46 | 50 | DESIGN AND FABRICATION OF GEAR POWERED SOLAR CELL BASE USING LIGHT DEPENDENT RESISTOR SENSOR | janumech80@gmail.com | 4 | 2 | 4 | 02:15 – 03:30 pm | Dr. Qadir |
| 47 | 54 | DESIGN OF A CONTINUOUS FLOW SOLAR DISINFECTION SYSTEM FOR FALAJ WATER | sreedharreddy@unizwa.edu.om | 4 | 2 | 4 | 02:15 – 03:30 pm | Dr. Qadir |
| 48 | 62 | UTILIZATION OF EXTRACTED WATER FROM CHILLER UNIT AND STUDY THEFEASIBILITY TO USE IT FOR LAB EXPERIMENTS ALSO AS POTABLE WATER | s2018298031_soh@cas.edu.om | 4 | 3 | 4 | 03:45 – 05:00 pm | Dr. Qadir |
| 49 | 63 | NOISE IN INDUSTRIAL AREAS AND ITS EFFECTS ON HUMANS | s118906@student.squ.edu.om | 4 | 3 | 4 | 03:45 – 05:00 pm | Dr. Qadir |
| 50 | 75 | Concept, Design and energy performance of a net zero-energy building (ZEB) in the middle east climate | zeinababayazeed@gmail.com | 4 | 3 | 4 | 03:45 – 05:00 pm | Dr. Qadir |