

## College of Science

| Mathematics                               |                       |  |
|---|-----------------------|--|
| Submitted by                              | Program               | Thesis Title   |
| <b>Esmahan Mohamed Aljawder</b>           | -                     | <u>Matrix Methods for Linear System of Differential Equations</u>  |
| <b>Abdulkarim Mohammed Hasan Khalil</b>   | Master of Mathematics | <u>Applications of Qualitative Theory of Ordinary Differential Equations in Dynamics</u>                           |
| <b>Huda Ahmad Sharaf Al Zaki</b>          | Master of Mathematics | <u>Transient Spectra of Driven Quantized Harmonic Oscillator</u>   |
| <b>Reem Hashim Nemer Chehadi</b>          | Master of Mathematics | <u>The Stability of Flow between Arbitrarily Spaced Concentric Cylinders with an Inner Constant Axial Velocity</u> |
| <b>Mohammad Jafar Abdullah Aldurazi</b>   | Master of Mathematics | <u>Numerical Solution of Nonlinear Heat and Mass Transfer Problem With Diffusion in The Gaseous Phase</u>          |
| <b>Noor Abduljalil Alshakhoori</b>        | Master of Mathematics | <u>Predictor – Corrector Methods for Solving Initial Value Problems</u>  |
| <b>Fatema Ebrahim Mohammed Al Jaboori</b> | Master of Mathematics | <u>Fourier Harmonics of Non – Autonomous Bloch Equations</u>   |

| Physics                           |         |  |
|-----------------------------------|---------|--|
| Submitted by                      | Program | Thesis Title   |
| <b>Khadija Jaafar Alyaqoob</b>    | Master  | <u>Characterizations and Heavy Metals Removal by Using Magnetic Nanoparticles (MNPs) from Wastewater</u>                       |
| <b>Mohammed Abdulqader Khunji</b> | Master  | <u>Structural, optical and magnetic properties of CdO co-doped with Al and Co</u>  |
| <b>Ameena Radhi Mahdi Albasri</b> | Master  | <u>Room-temperature ferromagnetism in CdO nanocrystalline powder co-doped with Al and Gd: treatment in hydrogen atmosphere</u> |
| <b>Zahra Jaffer Yacoob</b>        | Master  | <u>Magnetisation of Co doped ZnO dilute magnetic semiconductors (DMS)</u>  |
| <b>Issam Fouad Al Bitar</b>       | Master  | <u>Characterizations and heat generation ability of spinel ferrite nanoparticles</u>   |

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|-------------------------------|--------|---|
| <b>Alia Mustafa Islam</b>     | Master | <u>Photo-degradation of dyes using co-doped nanostructured films</u>  |
| <b>Raja Ebrahim Al-Asfoor</b> | Master | <u>Investigation of nonlinear optical properties of natural dye extracted from fruits using Z-scan technique (z-scan technique)</u> |
| <b>Husain Abdulla Ali</b>     | Master | <u>Measuring the External Natural Background Radiation in Areas Affected by NORM in the Kingdom of Bahrain</u>                      |
| <b>Fatema Jaber Aljaboori</b> | Master | <u>Green synthesis, characterization, and application of metallic nanoparticles in natural dye-sensitized solar cells</u>           |

### Biology

| Submitted by                | Program | Thesis Title   |
|-----------------------------|---------|--|
| <b>Tahani Saleh Hussain</b> | -       | <u>The Safety, Quality, and Sustainability of Potable Water in the Kingdom of Bahrain Consumer Perception and a Case Study</u> |

### Sustainable & Environment

| Submitted by                     | Program | Thesis Title  |
|----------------------------------|---------|---|
| <b>Ali A. Shaheed Fardan</b>     | -       | <u>Statistical Analysis of Air Pollutants Concentrations in the Governorates of Bahrain with Correlation to Meteorological Parameters</u> |
| <b>Mustafa Ebrahim Ali</b>       | -       | <u>Applying Process Integration for Environmental Impact Assessment to Enhance Energy Conservation and Emissions Reduction</u>            |
| <b>Ali Abdulla Ali Isa</b>       | -       | <u>Environmental Monitoring of Sand Dredging aAround the Norhern and Eastern Coastal Areas of Kingdom of Bahrain</u>                      |
| <b>Mariam Mohammed Al Ansari</b> | .M.Sc   | <u>Municipal Solid Waste Management in the Kingdom of Bahrain: Practices and Way for Sustainable Performance</u>                          |
| <b>Bashar Mohsin Al Aradi</b>    | -       | <u>Ecological Assessment of Sulfur Bacteria in Soils and Swamps in Bahrain</u>  |
| <b>Amani Khamis AlDoseri</b>     | -       | <u>Economic and Environmental Impact of Thermal Insulation in Residential Buiding in Bahrain</u>  |
| <b>Salem Rashed Buhamood</b>     | -       | <u>Environmental Sustainable Development Indicators for The Kingdom of Bahrain</u>  |
| <b>Weded Jassim Ahmed Mayoof</b> | .M.Sc   | <u>Air Quality and Chemistry of Airborne Particulates Determination of Inorganic Particulates in the Atmosphere of</u>                    |

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|--------------------------------------|-------|---|
|                                      |       | <u>Industrial, Urban and Rural Areas in Bahrain and Their Correlation With Meteorological Conditions</u>                  |
| <b>Hiba M. Jaafar Abdulridha</b>     | -     | <u>Assessment of Heavy Metals in Locally Caught and Imported Fish and Seafood During the Period</u>                       |
| <b>Layla A.Rahim Janahi</b>          | .M.Sc | <u>Ways to Improve Water Quality in Tubli Bay</u>   |
| <b>Khalil Adnan Hashim Al-Wedaei</b> | -     | <u>Ecology of Macroenthic Fauna Associated With the Seagrass Beds Locacated on Wesstern and Eastern Coasts of Bahrain</u> |
| <b>Maysoon Nedham Awadh</b>          | -     | <u>Fish As Dietary Source of Mercury and Methylmercury, Risks and Benefits</u>  |
| <b>Hasan Ali Abdulla Al-Najjar</b>   | .M.Sc | <u>Measurement and Analysis of Radiofrequency Radiation Levels from Mobile Phone Base Stations in Kingdom of Bahrain</u>  |
| <b>A. Hameed S. Jawad Al-Wedaei</b>  | .M.Sc | <u>The Level of Environmental Literacy For The Undergraduate Students At The University of Bahrain</u>                    |
| <b>Nada A. D. Al-Khalili</b>         | .M.Sc | <u>The Status of Ecotourism in Bahrain: Trends and Prospects</u>  |
| <b>A. Karim Hassan Rashid</b>        | .M.Sc | <u>Towards Sustainable Municpal Solid Waste Management In The Kingom Of Bahrain</u>                                       |
| <b>Feras Abdulla Khazal</b>          | .M.Sc | <u>The Environmental Awareness of Secondary School Students in Kingdom of Bahrain</u>                                     |
| <b>Anisa Ahmed Salman Khalaf</b>     | .M.Sc | <u>The Agricultural Water Alocation Issues in The Kingdom of Bahrain</u>  |