

2022

# Research projects

## ➤ Physics program

Number of projects	Faculty members	Title of project	values
DSR2022-RG-0121	Alhulw Alshammar	Energy storage polymer nanocomposites	120000
DSR2022-RG-0128	Meshal Alzaid	Smart Materials Group	120000
DSR2022-RG-0129	Z.A.Alrowaili	Biomedical Sensors	120000
DSR2022-RG-0127	Mohamed Ameen	Solar cell cover glasses with enhanced radiation and optical properties	120000
DSR2022-RG-0123	T.A. Taha	Highly efficient solar cells	120000
DSR2022-RG-0122	N.M.A. Hadia	Metal oxide nanomaterials for green hydrogen production from car exhaust	120000
DSR2022-RG-0126	Hani Negm	Radiation Physics and its Applications	120000
DSR2022-RG-0124	Ahmed Mohamed Moustafa	Internal Dose Safety from Radiopharmaceuticals in the case of Bone Metastasis; Diagnosis and Therapy	120000
DSR2022-RG-0125	Ali Atta	Polymer Based Nanocomposites for Energy Storage and Production Applications	120000

## ➤ Chemistry Program

### External research projects

No	Name	Title
2082/1-390761711.	AbdElAziz A. Nayl	"3D Matter" Made To Order" under Germany's Excellence Strategy
IFP-2022-39	<b>Mosaed S Alhumaimess</b>	METALLIC AND BIMETALLIC NANOPARTICLES ON VARIOUS SUPPORTED FOR ORGANIC TRANSFORMATION REACTIONS

### Internal research projects

No	Name	Title	value
DSR2022-RG-0131	Ibrahim Hotan Alsohaimi	(Membrane Science and Advanced Water Technology (MSAWT	120000
DSR2022-RG-0132	Hassan M. A. Hassan	Hybrid Nanocomposites Materials for Energy Conversion and Water Desalination	120000
DSR2022-RG-0136	Mohamed Ramadan	Fabrication of polymeric composites materials and its evaluation as adsorbent materials for wastewater treatment	120000
DSR2022-RG-0133	Amr A. Essawy	Exploitation of novel monitoring, detoxification, and Solar-driven catalytic technicalities in providing immaculate water	120000
DSR2022-RG-0134	Hazim M. Ali	Application of analytical methods in food and drug protection and safety	120000
DSR2022-RG-0130	A.A.Nayl	Applications of Organometallic Compounds and Nanomaterials	120000
DSR2022-RG-0166	Tarek Ahmed	Evaluation of possible protective effects of Olive Extracts, stability testing and nanoformulations in regards to OCT2 inhibition in cisplatin induced nephrotoxicity in rats	120000
DSR2022-RG-0135	Rasha Kamal	Development of novel electrochemical and spectroscopic sensors for the determination of medicaments and hazards affecting the quality of human life	120000

## ➤ Biology program

Number of projects	Author	Title	Value
DSR2022-RG-0117	Dr. Barakat ALRashdi	Studying the potential protective role of oleuropein coated with magnesium, zinc and selenium	120000
DSR2022-RG-0118	Mousa garmoush	Antiviral peptides	120000
DSR2022-RG-0164	Bassam Fares	Promising and advanced therapeutic prospects for human diseases using the superior curative abilities of stem cells and olives from Al Jouf	120000
DSR2022-RG-0116	Diaa Massoud	Animal biodiversity and conservation	120000
DSR2022-RG-0165	Mervat Ahmed AbdRabou	The therapeutic effects of stem cells and olive leaf extract against diabetes mellitus and its complications in pregnant rats	120000

## ➤ Mathematic program

### 1- External research projects

No	Name	Title
RG-21 159	Abdellatif Ben Makhlof	Design and development of intelligent driving assistance systems: improving road safety
SM04/20	Abdellatif Ben Makhlof	Differential equations: Analysis, Numerical methods, and Applications
86867	Sid Ahmed ould Ahmed Mahmoud	Dynamics of linear actuators and linear actuator equation $C=XB-AX$

### 2- Internal research projects

No	Name	Title	value
DSR2022-RG-0119	Sid Ahmed Ould Ahmed Mahmoud	Mathematical Analysis and Control Systems (MACS)	120000
DSR2022-RG-0120	Abdellatif Ben Makhlof	Stability for some nonlinear systems of differential equations and their applications	120000