

Research

Priorities & Activities

Shaqra University 2024



02

Prevalence of Multidrugresistant organisms (MRO) organisms from clinical samples and strategies to prevent spread of multidrug resistant bacteria 04

Pharmacological and toxicological evaluation of herbs and plants in management of infection and chronic diseases

06

The effect of vitamins level and inflammation in autoimmune diseases

01

Immunomodulatory roles of environmental factors including smoking, gut microbiota and viruses on autoimmune diseases

Role of vitamins and antioxidants in Multiple-Sclerosis and other chronic diseases incidence and progression, and how they interact with environmental factors

03

05

Management and treatment of chronic diseases

80

Developing & evaluating strategies and interventions in disease prevention, health promotion, and quality of life improvement among the Saudi population

10

Developing
environmental sustainability
course in health-related
programmes and exploring the
use of mobile technology in
enhancing environmental
sustainability knowledge and
competence of
health-related
students

2

Effectiveness of retro and forward walking in treadmill training

07

Prevalence of infectious
diseases such as
toxoplasmosis, leishmaniosis
and brucellosis and its
prevention

and impact of employing evidence-based practices in clinical care for professional development and for outcomes improvement

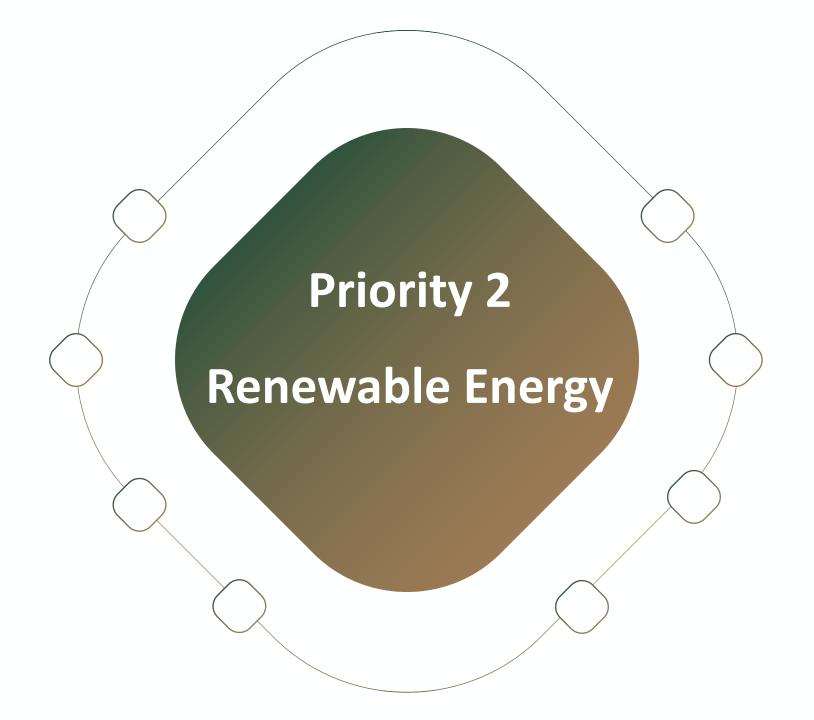
09

Effectiveness of functional movement screening

11

Influence of Body Mass
Index (BMI) on vital
parameters and pulmonary
function

Influence of abdominal obesity on movement performance in young adults



Designing of Photonic Devices and Designing of Antennas and 01 04 Li-Fi Microwave Systems **Using Photonic Antennas** Enhancing the optical networks 02 05 in Renewable Energy Implementation of MIMO New trends in renewable energy 03 06 Technology for Future systems

Communications

Improving the electric power system

Cooling of solar photovoltaic cells using absorption cooling

New trends in high voltage engineering

Potential of Parabolic Trough Solar Concentrator for Electric Energy Production

12

Cooling of solar photovoltaic cells using Ferro-fluid in the presence of alternating magnetic field

Materials Sciences and Renewable Energy and Their Applications

13

A novel technique for the truthful joining of dissimilar alloys via friction melt-bonded welding

14

Sustainable Fire Resistant
Construction Solutions using
Waste Tyres in Saudi Arabia

15

Deep learning, Machine Learning and Artificial Intelligence applications

