



## Main and sub-themes for presenting research articles at the International Water Conference-Kabul, 2024 (IWC-Kabul, 2024)

### Theme 1: Sustainable Management of Surface and Groundwater

- Monitoring, measurement, and management of surface and groundwater resources
- Evaluation of recent methods and techniques to prevent the reduction of surface and groundwater resources
- Sustainable Approaches for recharging groundwater resources
- Management and methods of groundwater abstraction and its optimal utilization
- Safety of dams, principles of exploitation and maintenance of surface and groundwater resources, and water engineering projects
- Groundwater conservation and protection
- Integrated water resources management and sustainable development
- Water crisis management in drought and flood circumstances
- Water resources management in the planning of cities
- Promoting the culture of optimal water consumption
- Environmental impact assessment (EIA)

### Theme 2: Water Supply and Wastewater

- Investigating trends and innovations in drinking water purification and distribution in cities and rural areas
- Challenges of access to drinking water
- Hygiene issues of water pollution
- Urban and industrial wastewater management
- Evaluation of water treatment and reuse methods
- Solid wastes management

### Theme 3: Climate Change and its Impact on Water Resources

- Climate change and its impact on surface water and groundwater
- The role of new technologies, data and information in climate change predictions
- Green economy and reduction of climatic effects on water resources
- Groundwater conservation under climate change conditions
- Impacts of climate changes on agriculture
- Managing risks related to climate changes
- Economic and social effects of climate change
- Impacts of Climate Changes on Water and Wastewater Management

- Disaster Risk Reduction (floods, drought, snow avalanche and landslides) and Early Warning System (EWS)
- Impacts of climate changes on surface water and groundwater resources

#### Theme 4: Policymaking in the Field of Water Resources

- Experiences and achievements in water resource management policies
- Prospects and challenges in water resources laws and regulations
- International cooperation and experiences exchange in water resources management
- Role of public participation and local communities in water resources management
- The role of government and financial incentives in water resources management
- Water management during the natural crisis
- Regional interactions in the water domain
- International events and agreements related to water
- Policies and approaches according to climate change adaptations in water resources management

#### Theme 5: Sustainable Development and the Future of Water Resources

- Approaches and models for ensuring the sustainable development of water resources
- The role of new technologies in the sustainable management of water resources
- Research and innovations in water use and exploitation for the future
- Sustainable development of water resources and protection of biodiversity
- Design and implementation of water management projects with a sustainable approach
- Improving efficiency and productivity in the utilization of water resources
- Surface water trends considering the changes in natural glaciers
- Changes in rainfall patterns and their impacts on the agriculture sector

#### Theme 6: Hydraulic Structures and Irrigation Networks, The Effects of Human Activities on Water Resources

- Micro hydropower structures in Afghanistan circumstances
- Intake for the irrigation canals
- New methods for dam design and hydro-technical structures
- Small and large dams and their effects on the national economy
- Irrigation networks in water shortage provinces
- Irrigation and watering norms considering climate change
- Effective irrigation methods to prevent water consumption in industrial agriculture
- Geology and mining activities
- Construction activities
- Activities of Chemical industries