



#### An Academic Hub of Blue Economy: from Mission to Practice



#### Imam Khamenei:

"The university is the most critical infrastructure for the development and evolution of the country; That is, none of the diverse infrastructures of the country has the significance and role of a university; Because the university trains manpower, which is the most important asset of the country."







Dr. Mohammad Ali Zolfigol, the Minister of Science, Research and Technology (MSRT)

"Investing in science and knowledge leads to increased domestic production, prosperity, and wealth"





"University of Hormozgan, enjoying the highest capacities and resources in the realm of blue economy within the province, demands a determined mission to enhance the scientific, cultural and social atmosphere of the society via wholehearted attempts of all respectful students, faculty members and administrative staff.

With the visions of commitment, expertise, knowledge and technology, we can have a great share in the progress of our country towards reaching the higher levels of evolution in education and research, where University of

#### Hormozgan becomes a significant nucleus in all. "



Dr. Mohammad Sadeghi President of UH



## Hormozgan Province -

Iran

The coastal province of Hormozgan is located in southern Iran and is separated from the UAE and Oman by a narrow body of water, the Strait of Hormuz. Its area is 68,476 km<sup>2</sup> and its provincial capital is Bandar Abbas. At the 2016 consensus, the province population was a little more than 1.7 million. The coastline of the province is about 900 kilometers, which is the longest coastline among the provinces of the country. Interestingly, the province contains 14 islands and four wetlands, each of which has its own priceless and pristine landscape. There are beautiful beaches for swimming, water skiing, boat riding and also oyster and coral hunting. Nearly 90 different bird species migrate to the province annually, a place considered as one of the important spots for migratory birds. The economy of the traditional communities of the province is generally based on agriculture, fishery, and maritime trade. However, the province is home to some of the country's most important infrastructure such as the country's busiest container port complex, oil refinery, and aluminum, steel, cement, shipbuilding and offshore industries. The two free zone ports of Kish and Qeshm islands play an important role in the economy of this area.





## Bandar Abbas -

### Hormozgan Province

Bandar Abbas is a port city and capital of Hormozgan Province on the southern coast of Iran, on the Persian Gulf. It occupies a strategic position on the Strait of Hormuz. The port of Bandar Abbas covers about 2400 hectares and handles 100 million tons of cargo per



year; it has a capacity of 40 berths, with the largest and most advanced container terminal in the country. At the 2016 census, the city population was 526,648. Bandar Abbas is situated on flat ground with an average altitude of 9 metres (30 ft) above sea level. The nearest elevated areas are Mt. Geno, 17 kilometres (11 mi) to the north, and Mt. Pooladi, 16 kilometres (9.9 mi) to the northwest of the city. The closest river to Bandar Abbas is the River Shoor, which rises on Mt. Geno and flows into the Persian Gulf, 10 kilometres (6.2 mi) east of the city. South of the city is the island of Qeshm





## University of Hormozgan at a Glance

University of Hormozgan (UH) is a public institution which is considered as the most comprehensive University in the Hormozgan province. It was established in 1991. It is now a hub of various academic activities with good number of Marine science and Technology, Engineering, Agriculture and Natural Resources, Humanities, Management and Accounting faculty members. Currently, the main research interest of the university is



related to various aspects of Blue Economy.

## **Present Status**

UH acts as one of the main and leading public universities in the south of Iran, with over 6300 male and female students; over 35 Bachelor programs (B.A., B.Sc.); 55 Masters programs (M.A., M.Sc.) and 23 Ph.D. programs. The distribution of students in

undergraduate and postgraduate programs is as follows: 76% in Bachelor programs, 19% in Masters programs and 5% in PhD programs. UH presently has more than 220 full-time Faculty members, 198 of whom are Assistant or Associate professors.

## University of Hormozgan Organization

Organizational and operational structure of the UH contains five deputies (Academic Affairs Deputy; Research and Technology Deputy; Planning and Development Deputy; Cultural and Social Affairs Deputy; and Student Affairs Deputy).



#### UH currently has six faculties (schools):

- Faculty of Agriculture and Natural Resources
- Faculty of Engineering
- Faculty of Humanities
- Faculty of Management, Economy and Accounting
- Faculty of Marine Sciences and Technologies
- Faculty of Sciences

UH has one associated branch, namely Minab Higher Education Center, as well as two research institutes of

Hormoz Research and Studies Center and Mangrove Forest Regional Research Center. There are also two UH affiliated units of Incubator Center and Entrepreneurship and Community Relations Management Center.

## Faculty of Agriculture and Natural Resources





## Faculty of Agriculture and Natural Resources

Faculty of Agriculture and Natural Resources is one of the first colleges of University of Hormozgan and is now staffed with multi-disciplinary faculty members. Main aims and mission of the Faculty of Agriculture and Natural Resources is to promote sustainable agricultural and natural resource development and management with the focus on tropical horticulture and seashore watersheds and ecosystems, land degradation and ecological modelling. In this way based on the ecological and environmental conditions of Hormozgan province the agricultural branch of the faculty focused on training professional and skilled specialists in managing, producing and marketing horticultural crops, plant biotechnology and Irrigation and drainage engineering. Members of the natural resources engineering department are working in interdisciplinary teams to come up with creative approaches to solve the complex and large-scale challenges in



various fields including hydrology, water resources management, GIS and remote sensing, watershed simulation and modeling, soil erosion and sediment models, desert combating and ecology and reclamation.

Faculty of Agriculture and Natural Resources

## Department of **Agricultural Engineering**

The main objective of this department is to promote research and innovations in growing horticultural crops. The department focuses on the improvement of horticultural crops, the use of sustainable strategies to control pest and diseases, sustainable management of agricultural production under environmental stress, strengthen the productivity of the sector in the region, and training of technicians and specialists. Due to the similarity of climatic conditions of Hormozgan province with India, Pakistan and Oman countries and exists similar horticultural, agricultural and medicinal plants, it seems possible to conduct joint research projects with these countries. This department can cooperate with universities and research centers in the field of production and post-harvest of horticultural, especially tropical and subtropical plants, production and domestication of medicinal plants and sustainable agricultural management, especially in arid and semi-arid regions. Main expertises:



- Pomology
- Post-harvest physiology
- Olericultures
- Crop breeding and Biotechnology
- Medicinal plants
- Agroecology Plant ecophysiology



**Faculty of Agriculture** and Natural Resources



## **Department of** Natural Resources Engineering (DNRE)

The department offers PhD and M.Sc. degree in pomology, olericulture, ornamental horticulture, green house crops production, medicinal plants and irrigation science. The main objective of this department is promoting researches and innovations in growing horticultural crops. The focus of the department is on the improvement of horticultural crops, use



of sustainable strategies to control pest and diseases, Strengthen the productivity of the sector in the region and train technicians of technicians and specialists.

Due to the similarity of the climatic conditions of Hormozgan province with India, Pakistan and Oman and the production of similar horticultural, agricultural and medicinal plants, it seems possible to conduct joint research projects with these countries

Due to governmental long-term programs for strategic development in Hormozgan province and Makran region; The DNRE of University of Hormozgan main goal is to become a leading center in coordinating disseminating knowledge on

Faculty of Agriculture and Natural Resources

the: Water Resource interactions with Climate Change and Human Activities and conducting researches on coastal ecosystem mechanisms and processes with the aim of achieving and accomplishing sustainable policy and decision making frame work and the challenges of responding based on the local needs and environmental conditions of Hormozgan province

## Department of

## **Natural Resources Engineering (DNRE)**

**Our research interests in DNRE are including** 

Hydrology

water resources management

soil erosion by water and wind

Ecology rangeland management

Ecotourism

Geomorphology particularly in drylands Soil sciences assessment of land degradation and desertification Climatology watershed management flood risk assessment reservoir management





#### Main expertises:

- Hydrology
- Soil erosion and dust
- Water resources management
- Ecology
- Soil science
- Geomorphology
- Environmental assessment and Remote sensing
- Geospatial Analysis

- Soil and Water Conservation



**Faculty of Agriculture** and Natural Resources



## Faculty of Engineering



## Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering (ECE) was initiated in 1996. It offers B.Sc. and M.Sc. degrees in Electrical Engineering, Computer Engineering and Artificial Intelligence. Presently, students are offered M.Sc. courses in Controls, Electronics, Power Systems, Software, and Artificial Intelligence. Today, the ECE department hosts more than 300 undergraduate students, 50 graduate students, and 15 full-time academic staff. In addition to providing educational laboratories and facilities for supplementing the courses, the department accommodates more than 10 highly specialized research laboratories directed by faculty members; these laboratories are constantly active in conducting academic and industrial research. The ECE Faculty has strong research ties with industry and has significantly increased its collaborations and joint planning activities in recent years. Research activities in the ECE department cover the following areas:



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Control Systems



#### **Faculty of Engineering**

University of Hormozgan

Power Systems and Power Electronics

## Department of Electrical and Computer Engineering

The ECE Faculty has obtained several strategic grants for developing research laboratories in control, electronic, and power systems. The faculty has strong research programs as described in the followings.

- Control Systems
- Artificial Intelligence
- Deep learning
- Computer Engineering
- Software Engineering
   Digital Systems



Power Systems and Power Electronics

#### Main expertises:

Electrical Engineering

- Electronics
- Digital Systems
- Control Engineering
- Deep Learning
- Communications
- Power Systems

Computer Engineering

Software Engineering

Artificial Intelligence





## Department of Mechanical Engineering

Mechanical Engineering as one of the oldest and most fundamental fields of engineering has played a vital role in economic development and is considered an infrastructure for most of the other branches of science and engineering. Mechanical engineering is one of the most extensive engineering fields in terms of its activities and applications. The Department of Mechanical Engineering is one of the first departments of the University of Hormozgan which was established in 1992. It has a total enrollment of 25 Ph.D., 50 M.Sc., and 200 B.Sc. Students. This department admits graduate students in two specialty fields of Energy Conversion, and Manufacturing and Production. Now, this department strives hard to have a big share in regional and national industrial development, pursuing this ambition, its faculty members. Home to 12 faculty members try hard to provide a suitable ground for their students and researchers in the following fields:



Desalination

- Fuel Cell
- CFD
- Multiphase Flow
- CAD/ CAM
- Solid-state welding
- Severe plastic deformation

They published valuable papers, patents, and research projects. Regarding future plans, it has been considered to add "Applied Design" and "Renewable energy engineering" disciplines due to regional demands.



#### **Faculty of Engineering**

## Department of Civil Engineering

Civil Engineering is one of the oldest branches of engineering discipline. It has a wide range of sub-disciplines compared to other engineering disciplines. Civil Engineering deals with designing, constructing, and maintaining a physical environment such as buildings, airports, roads, railways, bridges, dams, ports, breakwaters, offshore structures, water supply, sewer, and channels. Department of Civil Engineering is established in 1996 as one



of the first departments at University of Hormozgan. The department has Master as well as Ph.D. programs in Structural Engineering, Costal, Ports, and Offshore Structures, and Geotechnical Engineering.

Some future programs are as improving laboratory facilities of coastal research, laboratory investigation on effect of construction of new ports and breakwater on coastal line of Bandar Abbas, capturing the size effects in nano/micro structures using augmented continuum theories, dynamic overall behavior of fiber/particle reinforced composites.

Main expertises:

Structural Engineering
 Onshore and Offshore Structures

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Geotechnical Engineering
 Road and Transportation Engineering





## Department of Industrial Engineering

Department of Industrial Engineering is one of the first established departments of University of Hormozgan, based on scientific abilities and expertise of its faculty members, has the ability to hold different professional workshops, participate in research projects and activities, implement and improve systems, and solve problems and challenges of industries and companies. The main focus of the department is on production planning, system analysis, project management, supply chain management, logistics, and marine logistics in particular.



The main objectives of this filed programs are to produce graduates who contribute to the success of businesses and companies, especially in the province, through effective problem solving techniques.

A Wide range of Courses and applied research in this area can help business managers, owners and engineers to design, develop, implement, and improve integrated systems that include human, materials, information, equipment, and environment.

The main long-term plan of the department is to create a strong interaction with the industries of the province, especially the marine and port industries, in order to expand them and improve the performance of the industrial and logistics processes in the region.



## Department of Industrial Engineering

Collaborative programs with foreign universities and particularly Netherlands and Korea that are pioneers in the field of port services and industries, can be a lever for the success of the university programs in this field. Although, China and India due to their strong trading with Iran are good options to establish more collaborative programs.



#### Main expertises:

- Management
- Systems Industrial Engineering
- Production planning and Projects Optimization
- Supply Chain and Logistics Planning
- Soil and Water Conservation





## Department of Chemical Engineering

The Department of Chemical Engineering at the University of Hormozgan was established in 2019. The aim of this department is the scientific development and training experts who can fulfill the needs of educational and research centers as well as research and development (R&D) in industries, especially petroleum and petrochemicals. Publishing of high quality articles, as well as running several industrial projects such as designing industrial mixers, finding defects of industrial devices using computational fluid dynamics (CFD) and solving the problems and pollutant removal and wastewater treatment have been the honors of the chemical engineering department in recent years. At present, the chemical engineering department has 4 educational and 1 research laboratories. This department has 4 full-time faculty members, including 1 associate professor and 3 assistant professors. Currently, the department of chemical engineering at the



university of Hormozgan admits BSc students in the general field of chemical engineering and MSc students in transport phenomenon

field.



## Department of Chemical Engineering

In the chemical engineering department, full time faculty members are teaching and carrying out research activities in different fields of chemical engineering including transport phenomena, catalytic systems, hydrogen production and purification, biodiesel production, adsorption, process design, reaction engineering, polymer based nano-composites, synthesis and application of Nano-Materials, computational fluid dynamics (CFD), microfluidic device, Drug delivery, nano-fluids, Ladle and Tundish design, in the well-equipped laboratories available in the department. Publishing high quality articles, as well as running several industrial project such as designing industrial mixers, finding defects of industrial devices using computational fluid dynamics (CFD) and solving the problems and pollutant removal and wastewater treatment have been the honors of the chemical engineering department in recent years. It should be noted that this department is going to establish two new fields including separation processes as well as petroleum engineering, and will hopefully admit graduate students in the next years. Department of Chemical Engineering at University of Hormozgan is ready to cooperate with foreign countries in the fields of process design, catalyst and thermokinetics, Hydrogen production and purification, biodiesel production, polymer based nanocomposites,









## Faculty of Humanities



## Faculty of Humanities

The Faculty of Humanities has 55 faculty members in ten departments of Psychology, Educational Sciences, Geography, Persian Literature, English Language Teaching, Handicraft Education, Sociology, Law, Theology and Sports Science. The faculty publishes four scientific journals in the fields of psychology, social sciences, Persian literature and geography, which journal of psychology is published in English. There are also three PhD programs, 12 master's programs and 10 bachelor's programs in this college. The Faculty of Humanities has the capacity for good cooperation in the exchange of professors and students with foreign universities, especially the universities of China and Russia, conducting joint research projects and holding joint scientific conferences and training courses at the international level.







## Department of Counseling and Psychology

Specialties	Family Counseling, General Psychology
faculty members	8 faculty members
Bachelor Programs	Counseling & Psychology (B.A)
Masters Programs	Family Counseling, General Psychology (M.A.)
Ph.D. Programs	Counseling
Scientific Activities	Conducting research in Counseling and Psychology
of Counseling and	Designing and planning for resolving the psychological problems
Psychology	Providing educational advice to institutions and companies
Objectives of the	First. Developing the professional abilities of students in Counseling and
Department of	Psychology Researches
Counseling and	Second. Conducting psychological field researches and investigating the
Psychology:	problems that the society is dealing with
	Third: Training counselors and psychologists to perform counseling and
	psychotherapy
The department	First. Identify the psychological needs and mental health of the community
future plans are	and its relationship with the development of the province
defined in five areas:	Second. Cooperation with policy-making organizations and institutions to
	solve their psychological problems
	Third. Provide mental health services to the local community and neighboring
	countries
Areas and	Cooperation with Chinese universities in professor-student exchange
opportunities for	Cooperation with Russian universities in professor-student exchange
cooperation	Holding joint scientific conferences with universities in China and
A Contract the second second	Russia
LAND AND AND AND AND AND AND AND AND AND	Conducting joint research projects with universities in China and
	Russia



#### Faculty of Humanities

## Department of

#### Teaching English as a Foreign Language (TEFL)

Specialties	Teaching Methodology, Language Assessment, Research Methodology,
	Teacher Education, Linguistics, English Literature, Psycholinguistics,
	Sociolinguistics, Critical Pedagogy, Discourse Analysis
Faculty Members	Six faculty members
Students	A total of 309 students from the beginning to date
Bachelor Programs	Teaching English as a Foreign Language (TEFL)
Scientific Activities	EFL Teacher Education
	Conducting research in teaching, learning, and testing
	Textbook/curriculum evaluation
	Providing proficiency tests for PhD students of other fields
Achievements	1. Educating and professionalizing EFL teachers
	2. Obviating Iranian EFL teachers' problems in teaching and testing
	<b>3.</b> Providing counseling services to provincial decision-makers of EFL
	textbook developers and curriculum designers
Future Plans	<b>1.</b> EFL teachers' needs analysis to practice postmethod teaching strategies
	2. Assisting EFL teachers to implement dynamic assessment
	<b>3.</b> Moving EFL instructors towards more criticality and reflection
	4. Encouraging EFL teachers' joint collaboration in teaching
Areas and Opportunities	Conducting educational researches
for Cooperation	Holding conferences and scientific meetings
	Creating symposiums to negotiate new curricula and topics



#### Faculty of Engineering

## Department of Educational Sciences

Specialties	Educational Philosophy, Educational Management, Educational Psychology & Curriculum Planning
faculty members	4 faculty members
Students	22 M.A. Students in Educational Research and 14 Ph.D. Students in Curriculum Planning
Bachelor Programs	
M.A. Programs	Educational Research (M.A.)
Ph.D Programs	Curriculum Planning (Ph.D.)
Scientific Activities	Human Resources Education and developing
of Educational	Conducting research in educational issues
Sciences Members	Production of curricula
	Providing educational advice to institutions, companies and schools
The achievements of	First. Developing the professional abilities of education teachers and
the Department of	employees of institutions, offices, companies and universities
Educational Sciences	Second. Conducting field researches and investigating the problems that the
have been in three	educational system is dealing with
areas:	<b>Third</b> . Providing counseling services to provincial decision-makers of education and universities
The department	<b>First</b> . Educational needs assessment of institutions, companies, education and universities in the field of human resources
future plans are defined in five areas:	Second. Establishing relationships with schools and a case study of
ucificu în five aleas.	educational activities in schools and helping to improve their performance
	<b>Third</b> . Establishing the fields of study needed to improve the human
	resources and teachers of the province
	<b>Fourth</b> . Laying the groundwork for joint cooperation with universities in
	other countries to exchange experience
	five. Participation in social activities to reveal the educational aspects of
	decisions and actions of companies and institutions
Areas and	Conducting educational researches

Areas and opportunities for cooperation Conducting educational researches
 Holding conferences and scientific meetings
 Creating the opportunity to visit the educational experiences of

#### Hormozgan province

> Creating curricula for new topics, especially on the virtual platform

#### Faculty of Humanities



## Department of Geographical Sciences

Specialties	<ul> <li>Physical Geography, Climatology</li> </ul>
	<ul> <li>Political Geography</li> </ul>
	<ul> <li>Physical Geography, Geomorphology</li> </ul>
	✓ GIS and Geomatic Engineering
	<ul> <li>Geomatics Engineering, Geographic Information System</li> </ul>
	<ul> <li>Environmental Planning and Management, Coastal Planning and</li> </ul>
	Development
faculty members	6 faculty members
Students	✓ 100 B.A. Students in Geographical Science - Geographical Information
	System
	✓ 48 M.A. Students in Ecotourism, Spatial Planning, Climatology-Climate
	Change, Remote Sensing and GIS - Geographical Information System
Bachelor Programs	Geographical Science - Geographical Information System
Masters Programs	✓ Ecotourism (M.A.)
	✓ Spatial Planning (M.A.)
	<ul> <li>Climatology-Climate Change (M.A.)</li> </ul>
	<ul> <li>Remote Sensing and GIS - Geographical Information System (M.A.)</li> </ul>
Ph.D Programs	
The achievements	<ul> <li>Spatial Planning research in coastal areas.</li> </ul>
and future plans of	<ul> <li>✓ Coastal ecotourism.</li> </ul>
the Department of	<ul> <li>Climate change and its effects on the coast of the Persian Gulf and the</li> </ul>
Geographical	Sea of Oman.
Sciences	
Areas of cooperation	First. Geospatial Science.
The local and	Second. Natural disaster modelling.
and the first and	Third. Satellite Digital Image Processing.
	Fourth. Climate Change and Environmental Management.
Conclusion	Geography is unique in multi-disciplinary studies. It offers students a chance
3 and the second second	to learn about many different phenomena from multiple perspectives.

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#### Faculty of Humanities

## Department of Social Sciences

Specialties	Social Sciences Research, Sociology
faculty members	5 faculty members
Number of Students	35 M.A Students in Social Sciences Research
	110 B.A Students in Sociology
Bachelor Programs	Sociology (B.A)
Masters Programs	Social Sciences Research (M.A.)
Ph.D. Programs	
Scientific Activities	Conducting research in Social and Cultural issues
of Social Sciences	Designing and planning for resolving the social problems
	Providing educational advice to institutions and companies
Objectives of the	First. Developing the professional abilities of students in Social Researches
Department of Social	Second. Conducting field researches and investigating the problems that the
Sciences:	society is dealing with
The department	<b>First</b> . Identify the social needs of the community and its relationship with the
future plans are	development of the province
defined in five areas:	Second. Cooperation with policy-making organizations and institutions to solve their community-based problems
	Third. Identifying social and cultural obstacles to the development of the
	province
Areas and	Advising institutions to identify cultural and social challenges
opportunities for	Conducting research in Social and Cultural issues
cooperation	Holding conferences and scientific meetings



#### Faculty of Humanities

## Department of Sports Science

Specialties	Corrective Exercises, Sport injuries, Sport physiology
faculty members	6 faculty members
Students	143 BSc. Students in Sport Sciences
Bachelor Programs	Sports Sciences (BSc)
Masters Programs	
Ph.D Programs	
Scientific Activities of Sport Science and Physical Education Members:	<ul> <li>Design training protocols for people with various musculoskeletal disorders</li> <li>Assessment and Exercise Prescription</li> <li>Research about the effects of exercise interventions on improving postural malalignments and muscloskeletal disorders among children, adolescents, adults and older people with different physical activity level</li> <li>Exercise physiology and athletic performance</li> <li>Cellular and molecular adaptations to exercise</li> </ul>
The achievements of	Diet, Exercise and Chronic Disease First. Empowering students in the field of physical education and sport
the Department of	sciences in accordance with the goals of the field
Sport Sciences have	Second. Familiarity of students with the principles, basics and general
been in Four areas:	<ul> <li>knowledge in sport sciences</li> <li>Third. Improving general physical fitness and learning basic motor skills in basic and specialized sports</li> <li>Fourth. Preparation for entering specialized university and non-university courses to approach the labor market</li> </ul>
The department	First. Establishment of postgraduate courses:
future plans are	*Exercise Physiology-Exercise Physiology and Health
defined in Five areas:	*Sport Injuries and corrective exercises-corrective exercises
	Second. Educational needs assessment of education, Department of Sports and Youth and universities in the field of human resources and health <b>Third</b> . Establishing postgraduate courses to improve the people interested in the field of physical education and in physical education teachers of the province

Fourth. Establishing relationships with schools and assess the needs of physical education teachers in schools and help improve their performance Fifth. Laying the groundwork for joint cooperation with universities in other countries to exchange experience

Areas and opportunities for cooperation

- Conducting research in the field of health, corrective movements and sports physiology
- Holding conferences and scientific meetings
- Creating curricula for new topics, especially on the virtual platform

#### Faculty of Humanities

## Faculty of Management, Economics and Accounting







## Faculty of Management, -**Economics and Accounting**

The faculty can provide specialised and educational and services in the following scientific areas:

Human Resources and Organizational Behavior

Marketing Studies

- Operations and Productivity
- Strategy and Futures Studies
- Financial Economics
- Knowledge Management



## Department of Business Management & Custom Management

The field of business management includes transformation management, international marketing and internal marketing, human relations, information systems analysis techniques, and finance and economics to achieve the following goals:

 Increasing students' ability to understand management-based issues, collect and analyze information on each of these issues, evaluate different solutions to each problem, and make and implement decisions;

 Gaining accurate knowledge of the essential duties of commercial and industrial organizations and institutions;

 Increasing students' ability to understand the changing social, economic, technological and political conditions of the organization, and adapting the organization's plans to new conditions;

• Creating the foundation for personal and professional growth. In marketing, vision is seen as a vital element in the natural growth of any business, and its role in creating value through better understanding of customer needs and providing creative products and services, expressing value through different channels as well as branding. Value creation is created by pricing commensurate with market conditions and competing with the goal of maximizing value. The courses offered by this group's

professors cover a variety of marketing topics.

In the strategic management, companies are analyzed as competitors in the economic space. Their main issues include the development and effectiveness of corporate strategy at both business and holding levels; analyzing the competitive environment of the business and the sustainability of the strategy over time. The research and classes offered by this group's professors are pursued by examining the economic, social, cultural, and political aspects and focusing on local and global competition.



## Department of Business Management & Custom Management

The purpose of launching a bachelor's course in customs management is to train human resources by learning the necessary skills to properly perform the assigned tasks in order to achieve the goals of the Islamic Republic of Iran in the field of financial policy and international exchanges by implementing customs laws and regulations, Export and Import Law and other related laws and regulations.

#### **Specialties :**

#### Marketing

#### Financial

- Business policy
- Human Resources Management
- Organizational Behavior
- Public international law & Law



Faculty of Management, Economics and Accounting
### **Department of Accounting** and Economics

The many exciting and rewarding fields available to this department and faculty members are audit, assurance, and tax services to consulting, finance, investment, and economic advice.

The achievements and future plans:

Identifying specific management accounting needs of owner-managers • Understanding the importance of management accounting information for owner-managers

- Corporation responsibility, accounting and accountants
- Promoting personal financial planning
- Providing native models for increasing labor productivity
- Identifying contexts and priorities of investment
- Developing models of investment, incentives, market design, finance, op-
- timal pricing and behavioral economics
- **Specialties:**
- Accounting and Reporting
- Accounting Information System
- Government Auditing and Accounting
- Management Accounting
- Financial Economics
- International Economics



### **Department of Public Administration & Industrial Management**

Introducing students to the theoretical issues of industrial management knowledge and its scientific applications to improve the efficiency of industrial and executive units;

Implementing relevant and effective management software;

Applying mathematical and logical models to decision making; Specialist training as a liaison between managers and administrative and technical staff;

Increasing the power of applied case analysis using applied findings;

Introducing students to workplaces through internships; Training specialists in decision making and problem solving; Teaching and research in the following areas:

- Business Information Systems
- Knowledge Management
- IS Adoption and Usage, Human-computer Interaction
- Entrepreneurship, Business Development, business plan
- Management and Leadership
- Business & Business Administration
- Research Methods
- Educational Technology and Computing
- Performance Evaluation and Public Management **Specialties:**
- Production and Operations
- Operations Research
- Management of Systems

Public decision making and policy Human resources management organizational behavior MIS & Knowledge management



Faculty of Management, **Economics and Accounting** 

# and Technologies



#### Faculty of Marine Sciences and Technologies

The faculty of Marine Science and Technology in University of Hormozgan was established in 2010 with three departments: Marine Biology; Fisheries; Atmospheric and Physical Oceanographic Science. The faculty has 24 scientific members, of them 2 are full professors, 8 associate professors and 14 assistant



#### professors.

With more than 11 years of development, the faculty of Marine Science and Technology offers intellectually rigorous environment and unique opportunities for education and research. Our mission is to serve the society by introducing well educated, motivated and creative marine professionals. Moreover, our research results will benefic our society in many aspects includin environmental conservation and industries.



### Department of Fisheries

Fisheries and Aquaculture has long been an area of specialization at University of Hormozgan. The department of Fisheries is a comprehensive and dynamic department at University of Hormozgan and provides education for undergraduate, graduate and post-graduate students and trains professionals in the field of fisheries, aquaculture and environment. The faculty members of this department exhibit a diverse array of skills and expertise including fisheries management, aquatic ecology and biology, aquaculture, conservation physiology, and environment. They also conduct outstanding regional, national and international research projects in fish and invertebrate culture, fish and shellfish habitat and stock assessment, fisheries enhancement, conservation and management and marine environment and pollution. The department also has international cooperative associations with some top universities and research institutes worldwide. Some faculty members of this department have intensive collaborations with Department of Fisheries and Oceans (DFO), Canada, and Leibniz Centre for Tropical Marine Research (ZMT), Germany.



#### Main expertises:

- Fisheries exploitation and management
- Fish and Shellfish Ecology and Biology
- Population dynamics and stock assessment
- Conservation Ecology
- Fish and Shellfish Physiology
- Aquaculture Genomics and Biotechnology



Faculty of Marine Sciences and Technologies



### Department of

#### **Atmospheric and Oceanographic sciences**

The researchers of this department are active on two main subdivisions of atmospheric science and physical oceanography science. In the atmospheric subdivision the main focuses are on the subjects such as environmental pollutions including aerosols and carbon dioxide in the air, and the solutions to resolve such pollutions. In the oceanographic subdivision the main focuses are on the hydrodynamic of the coastal area, and how they can interact with the anthropogenic activities. Geomorphology of the coastal area are also investigated in this faculty. Most of the research stuies are modelling base, and the students are skilled with variety of models in the field of atmosphere and ocean including but not limited to MIKE, WRF, ROMS, PALM, COHERENS and Arc-GIS. Since our faculty, is located right next to the Persian Gulf, we have great opportunity to work on every aspect of this Gulf. For instance, we can corporate with other countries, who has experience in extracting renewable energy from the coastal water, to asses and investigate this Gulf for extracting any sort of renewable energy. We can cooperate for establishing a proper place an artificial island for the recreational and touristic purpose.



#### Main expertise:

- Physical oceanography
- Meteorology
- Marine geomorphology
- Coastal hydrodynamic



Faculty of Marine Sciences and Technologies

### Department of **Marine Biology**

Our department covers a variety of marine research studies including biology and ecology of marine organisms, their reproductive biology, thier systems and taxonomy, phylogeography and population genetics, marine pollution, marine biotechnology, antifouling studies, marine phycology, marine microbiology and the technology of marine enzymes. Describing marine biodiversity in the Persian Gulf and the Gulf of Oman, finding new taxa, discovering new aspects of their biology, unfolding their ecology as well as identifying valuable marine bio-products are part of our scientific achievements. In addition to continuing our researches on the biodiversity, biology and ecology of marine organisms, we also intend to find our way toward applied marine biology and marine biotechnology. This would include addressing issues in fisheries like finding suitable local candidates as live food, improving antifouling methods, using marine bacteria in order to produce bio-product and marine enzymes for industries. Using marine organism in order to produce pharmaceutic and cosmetic compounds. Also biotechnology can help in bioremediation of pollutants. Main expertise:



- Marine Biology
- Marine Ecology
- Systematic Zoology
- Biochemistry
- Marine Pharmacology
- Marine Biotechnology
- Environmental pollution
- Marine animals physiology
- Marine Botany and Phycology



**Faculty of Marine Sciences** and Technologies



# Faculty of Sciences

The Faculty of Sciences, using the best professors in the province in five departments of mathematics, physics, geology, chemistry, and statistics, is engaged in teaching students and researchers at the undergraduate (B.S.), graduate (M.Sc. and



Ph.D.) levels.

In coordination with other research institutes and universities in the country, as well as international universities, some faculty members have contributed in joint interdisciplinary research projects. The outcomes of these scientific collaborations are well seen in the form of international projects and articles in high-quality journals. Therefore, we welcome any new proposal in the form of joint research projects with international universities and researchers.





### Department of Chemistry

In Hormozgan University, the chemistry program started in 2012 and its building is a part of the College of Science, which is one of the buildings on the main University campus. The School of Chemistry offers opportunities for study Bachelor's and Master's degrees. The undergraduate students learn the specific concepts of Chemistry in Pure Chemistry. Master's programs admit students in Organic Chemistry and Analytical Chemistry. After graduation, students should have the ability to solve the chemical industry's problems, cooperate with research institutes, or can continue higher education. There are several educational and research laboratories in the department to help the students and researchers better learn and teach Chemistry, or conduct their research projects. Nowadays, this group is engaged in educational and research activities with 8 faculty members, 4 associate professors, and 4 assistant professors with different research areas including -Novel nanostructured materials: synthesis, fundamental studies, and investigation of their applications. -Solid-phase extraction and solid-phase micro-extraction. - Metal-Organic Framework. - Environmental assessments. - Thermophysics - Synthesis of biological compounds – Application of catalysts in organic reactions





#### **Faculty of Sciences**

### Department of Chemistry

The members of the group collaborate in the form of joint articles with M. Pierantozzi (Italy), S. Aparicio (Spain), Takanori Iwasaki Peperko



#### (Japan)

#### Main expertises:

- Organic Chemistry
- Inorganic Chemistry
- Analytical Chemistry and Physical chemistry



#### Faculty of Sciences

### Department of Mathematics

In the mathematics department of Hormozgan University, scientific and research activities are carried out in three main directions: analysis, algebra and geometry. In each of these research orientations, there are other sub-orientation. In the field of algebra, there are fields of algebraic Hype structures, mathematical logic, Bl and MV algebras, theory of rings and modules, and the field of homology algebra. In the field of analysis, there are research fields with the topics of the geometry of Banach spaces, operator theory, tensor analysis, frame theory, matrix theory and numerical analysis. In the field of geometry, there are research fields of differential geometry and the field of dynamical systems.



addition, the Mathematics Group plans to develop In bio-mathematics, game theory

The members of the group collaborate in the form of joint articles with Chaoqian Li (China), kar ping shum (China), Aljosa Peperko(Slovenia), Hila (Albania), Irina Cristea (Romania), Sanjia Jacic Rasovic (Montenegro), Thomas Vougiouklis (Greece)

#### Main expertises:

- Algebra



### Department of Physics

The researchers of this department are active on two main subdivisions of physics and geophysics. In the physics subdivision, the focuses are on the subjects such as optics and laser, particle physics, atomic and molecular, computational condensed matter physics and quantum information. In the geophysics subdivision, the focuses are on the two subjects



seismology and geomagnetism.

#### Main expertises:

- Geophysics
- Atomic and Molecular
- **Computational Condensed Matter Physics**
- Particle physics



## University of Hormozgan

Faculty of Sciences

### Department of Statistics

The following research areas are well- represented in the department:

Reliability systems, Ranked set sampling, Nonparametric estimation of distribution function, Order statistics and its applications, Stochastic ordering and its applications in economics and actuarial science, Sequential order Statistics and its application in Bayesian Inference, Generalized linear models and its applications in different areas, Copula theory and its applications in water resource management and climate studies.

#### Main expertises:

- Reliability theory
- Ordered data
- Stochastic orders
- Non-parametric statistics
- Generalized linear models
- Statistical Learning
- Copula, Multivariate analysis
- Evidential statistics, Distribution theory
- Information theory







#### **Faculty of Sciences**

# Department of Geology

The Department of Geology initiated in 1997. It offers B.Sc. and M.Sc. and PhD degrees of Petrology and Sedimentology and Sedimentary Rocks initiated in 2013.

Presently, students are offered M.Sc. and PhD. courses.

Today, the Geology department hosts more than 112 undergraduate students, 38 graduate students. In addition to providing educational laboratories and facilities for supplementing the courses, the department accommodates more than 6 highly specialized research laboratories directed by faculty members; these laboratories are constantly active in conducting academic.



- The laboratories contains:
- Optical Crystalography
- Mineralogy
- Igneous Rocks
- Sedimentary Rock
- Sedimentology
- Photogeology
- Paleontology

**Specialization:** 

- Petrology
- Economic geology
- Sedimentology and Sedimentary Rocks
- Paleontology & Stratigraphy
- Structural Geology & Tectonics

Bachelor program: Geology Masters programs: Petrology and Sedimentology and Sedimentary Rocks Ph.D. programs: Petrology and Sedimentology and Sedimentary Rocks

#### **Faculty of Sciences**

## Minab Higher Education Complex







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### Department of

#### **Computer engineering (Smart Agriculture)**

As the university is located in southern part of Iran, in which agriculture is one of the outstanding resources, the main objectives of the department has been concentrated on application of computer science in agriculture. We intended to utilize data science, machine learning and IoT in agriculture science in order to improve the quality of products, fight diseases and in general, enhance the agricultural level, while moving from traditional agriculture to modern one. Accordingly, we are also studying the usage of drones and some projects in the field of smart irrigation are also in progress. Furthermore, the faculty is currently working on a software (mobile application) for identifying the diseases of lime tree with all its might. The perspective is to develop similar software for other plants as well.

Last but not least, the university is teaching knowledgeable, creative young experts which will definitely play a great role in agriculture and computer areas of study.

#### Main expertises:

- Artificial Intelligence in agriculture
- Smart agriculture



IoT and Drones application in agriculture
 Applied data science in Agriculture



Minab Higher Education Complex

### Department of **Plant protection**

Plant protection is a branch of agricultural science that studies the biology and ecology of harmful organisms of agricultural crops and develops methods to control and prevent damage to crops and losses of yield. Organisms that cause infectious diseases include fungi, bacteria, viruses, phytoplasmas, protozoa, nematodes, and plants. In addition, the damages caused parasitic by



macroorganisms like insects and mites are studied in this field. Plant Protection also involves the study of pathogen and pest identification, disease etiology and epidemiology, economic impacts, pathosystem genetics, and plant resistance to pathogens and pests

#### Main expertises:

- Plant Pathology
- Insect Ecology
- Insect-Microbe interaction
- Insect Physiology



Minab Higher **Education Complex** 



### Department of **Horticultural Science**

Horticulture combines sciences, technologies, and arts for the development, sustainable production, marketing, and utilization of high-value, intensively grown plants. As a branch of agriculture, it deals with garden crops, generally fruits, vegetables, medicinal herbs, flowers, and ornamental plants. Horticulture also deals with the need of human society to preserve plants after harvest as well



as breed and introduce new varieties. It is at the heart of a society's food security and the linchpin of agriculture.

#### Main expertises:

- Pomology
- Olericulture
- Floriculture
- Postharvest Technology
- Plant Morphology & Anatomy
- Phytophysiology
- Growing Medicinal & Aromatic Plants
- Tissue Culture
- Plant Breeding
- Landscape & Plant Propagation.





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### Department of Industrial Engineering

The main research fields of department of Industrial Engineering focus on the application of different optimization techniques in supply chain design. Some papers have been published mainly for supply chain design problems. The future research directions includes some areas:

Resilient supply chain; CSR-based supply chain design; Agriculture



#### supply chain design; Industry 4

International collaboration can be for the research fields such as resilient supply chain, CSR-based supply chain design, Agriculture supply chain design and application of optimization in Industry 4

#### Main expertises:

- Operation management
- Supply chain design, planning and management
- Mathematical optimization
- Agriculture supply chain
- Mass Customization
- Resilient supply chain
- Corporate social responsibility (CSR)-based supply
- chain design



Graduate faculty members **Bachelor program** Master programs PhD programs students 70 2 1 0 0

**Minab Higher Education Complex** 

### Department of Water Science and Engineering

Considering the importance of greenhouse cultivation, the group is developing a smart greenhouse management system (SGMS) that is able to control temperature, humidity, solar radiation, irrigation, etc., automatically. Build and equip a lysimetric site, also determination determining the critical points of flooding and its zoning, monitor drought, and Investigating and evaluate the balance of groundwater resources and the factors affecting. The group aims to determine the water requirement of tropical and subtropical plants in the south of Iran, considering the impact of climate change in the future



#### Main expertises:

- Irrigation
- Drainage
- Evapotranspiration
- Crop water requirements
- Crop modeling
- Evaluation Flood and Drought Zoning

Minab Higher Education Complex



#### **Affiliated Centers**





### Hormoz Research and Studies Center

Hormoz Research and Studies Center of UH was established in 1996 as an intra-organizational complex in order to match and respond to changes and needs of society and to organize and solve its challenges and participate in global competition in the production and development of knowledge. It targets and organizes research activities and embarks on the development of technology based on the mission of the university in three related areas: social, cultural and economic, bioenvironmental and technical- engineering. And from that date onwards, in all the above-mentioned areas and, based on scientific and regional capabilities, it has

been conducting comprehensive works with an approach towards the efficiency and application of theoretical and scientific dimensions of aresearch.

#### **Missions and Objectives:**

Strengthening the development of the necessary grounds for the development of higher education in the province with a view to the results of scientific activity in the form of responsive approaches for comprehensive and balanced development.
Assisting in the development and research in the university and community and promoting the level of knowledge and skills related to research in faculty members, staff and graduate students.

 Supplying research needs of executive agencies, state and non-governmental organizations and enterprises.

 Providing scientific and technical consulting services in connection with researches to domestic and foreign applicants

 Establishing an appropriate relationship and coordination with competent specialists in the other scientific and research centers of the country and abroad with the aim of mutual co-operation

 Prospects for achieving a high degree of research and participation in national and global regional arenas based on knowledge-based activities

 Increasing the productivity of researchers and the effectiveness of their activities in developing the knowledge of the country in the social arena, and encouraging researchers to have a research-based approach that will further enhance the scientific and problematizing level of researchers.



### Hormoz Research and Studies Center

**Research groups** 

- Technical and engineering research
- Environmental research
- Economic, social and cultural research

Special fields

- RS and GIS
- Tourism and ecotourism management
- Environmental monitoring
- Soil erosion and atmospheric dust
- Biotechnology
- Analysis of biological networks
- Engineering of improved microorganisms and enzymes for
- biodegradation and bioremediation.
- Arabic language and literature
- Studies of Persian Gulf
- Western studies based on Ottoman Turkey
- Urban flood management
- Environmental impacts of desalination plants
- Environmental impact assessment
- Water quality management
   Hydroinfotmatics



### Mangrove Forest **Regional Research Center**

Mangrove Forest Regional Research Center as one of the sub-institutes of UH was initially established in 2012 with the name of Regional Mangrove Research Center and after obtaining the agreement in principle from the Higher Education Development Council of the Ministry of Science, Research and Technology. It has three specialized groups of natural sciences and environment, new technologies and economic and social studies and with the membership of 17 faculty members on a part-time basis. It officially started its activities in 2014; in fact, according to the desired results of activities conducted, it managed to obtain a definitive license in March 2017. The main offices of this research center are located in the center of Qeshm city and in the campus of UH.

In addition to official and educational spaces and facilities, this research center has two separate laboratory spaces. Marine equipment laboratory was set up in 2017 with the aim of providing fishing equipment and sampling of aquatic animals and recording physical and chemical information of water and studying sediments and bed organisms and was equipped with Niskin water sampler bottle, HACH model multi-parameter device, floor trawl net for shrimp and other aquatic animals and Gregor cages for aquatic fishing. Also, the Marine Science Laboratory has been set up in 2018 with the aim of conducting research activities for marine science researchers. In this laboratory, equipment such as light microscope, stereomicroscope, laboratory utensils and glass measurements, digital scales, laboratory sample set and instruments for measuring morphometric traits of laboratory samples exist.

One of the basic instruments of this research center for field studies is a research boat with a 50 hp four-stroke engine in accordance with environmental standards and without pollution, which has sufficient facilities to transport a maximum of 12 people and has a complete set of sampling equipment, satellite positioning device, GPS with fish finder and fish



locator and a complete set of safety equipment including life jacket for each person. During the performance of this research center and in order to implement joint research projects and use the facilities of the parties involved, memorandums of understanding and agreements have been established with various organizations including the General Department of Environment of Hormozgan province (to implement 6 joint projects), Bandar Khamir Municipality (with 1 joint project under implementation) and Qeshm County Fisheries Department. Also, from the internal credits of the university, projects in the field of mangrove ecosystems are being done or completed, and various scientific research articles have been published by researchers of this research center in international and domestic journals in recent years.



### Entrepreneurship and Community Relations Management Center

Entrepreneurship and Community Relations Management Center of UH has been established in order to expand and deepen the effective relationship between the university and the host community to enhance the capabilities of professors, university graduates and meet the scientific and professional needs of the community. This management center is responsible for providing appropriate services for the expansion and development of the university's research and technological relationship with society and industry, as well as for entrepreneurship. One of the remarkable projects of UH in cooperation with the industry sector is the design and production of an adsorption desalination plant to use the heat and steam wasted in industrial environments and the feasibility of adding the system to the RO desalination plant to increase its productivity and efficiency.



### Incubator Center -

The incubator center of the University of Hormozgan was established in 2008. This center provides settlement space and equipped offices in the Basirat campus of the university for graduates and faculty members with the entrepreneurial spirit. The start-ups settled in the Incubator center receive the initial seed funds and a variety of the following services to grow in the initial stage and reduce production, commercialization, and cost risks:





- Educating
- Linkage
- Advertising
- Marketing

So far, 36 technology seeds have received the incubator center's services, and 28 start-up units are now officially located there. They are working in different fields like:

- Water purification,
- Internet of things (IOT),
- Designing teaching tools for children with disabilities,
- Manufacturing of industrial and laboratory equipment,

The total space of the incubator in 2021 is more than 450 square meters, including one shared building and one innovation center.

It is worth mentioning that conducting the idea events and participating inexhibitions for presenting the technological achievements are also among the actions carried out by the incubator center of the University of Hormozgan.

### University of Hormozgan **Introduction Booklet**

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