The strategy of the University of Bahrain 2009-2014 considers Scientific research at the University of Bahrain and the research programs including funded research a focal point in developing and promoting the university. This strategy stems from the Economic Vision 2030 of His Majesty King Hamad Bin Isa Al-Khalifa which was launched in November 2008 and mandated to the Economic Development Board for its thorough implementation in a well thought steps.

This conforms with the objectives of the Deanship of Scientific Research which seeks to support organized scientific research and studies that will support decision makers to achieve their objectives to improve the work process in the Kingdom and to encounter upcoming challenges and solve problems.

The University of Bahrain is rich with intellectuals and experienced and efficient scholars in various fields. The University has proved that it is capable to support the community in general. It has for long provided Bahraini society with numerous studies and quality research. In fact, this is the basic mission in the work of universities anywhere and our national university will proceed in this direction.

The university will continue to support and boost research activities in order to maintain its leadership at the national level. Through science and research, the University will intensify its efforts to advance research activities at all levels to improve the quality of life.

Dr. Ebrahim Mohammed Janahi
the President of University of Bahrain

Editorial

The University of Bahrain Strategic Plan has been drafted to reflect the essence of the Economic Vision 2030 for the Kingdom of Bahrain. The plan highlights Scientific Research Strategy and knowledge and includes various initiatives for its implementation, namely initiative (10). The University aspires for quality and excellence in research and therefore endeavors to comply with specifications and criteria that will lead the university to achieve its goals.

One of our main objectives is to carry out research and studies that will serve the Kingdom of Bahrain, the Gulf Region and the whole world.

Ultimately, this will require the university community to cope with these aspirations for progress and leadership in scientific research through gradual and well thought steps. The Higher Studies programs in various disciplines are undoubtedly among the affluent sources to enhance scientific research which will eventually assist research areas at the university.

Prof. Isa Salman Qamber
Editor-in-Chief
Dr. Michael Krueger, Department of Economics Finance, College of Business Administration

is conducting the following research projects:


2- Embedding the Principles of the Paris Declaration into MDG-Strategies, working paper, 2nd draft, 13 pages, November 2011 (in progress)

3- Measuring Unemployment in Agrarian Economies, 3rd draft, 24 pages, November 2011 (in progress)

4- The Evolution of the Afghan Economy since 2001, working paper, 3rd draft, 46 pages, December 2011 (in progress)

Bassam Mahmoud Abu-Abbas
Department of Accounting
College of Business Administration.

Published article entitled:
"Is Net Income after Tax a Better Measure of Firm Performance than Taxable Income?"

Jordan Securities Commission Disclosure Directives requires that listed corporations in Amman Stock Exchange to report both taxable income and income after tax in their financial statements. This study examines which components of income statement, taxable income or net income after tax, is a better measure of firm performance. In addition, the study tests the association between stock returns and taxable income and net income after tax.

Scientific Research Newsletter Issued by the Deanship of Scientific Research,
University of Bahrain, Issue Eleven, 2012

Editor - in - Chief
Prof. Isa Salman Qamber
Deanship of Scientific Research

Editorial Secretary
Dr. Hmida Khal
Deanship of Scientific Research

Faculty Members of Scientific Research Newsletter

Dr. Ali Ebrahim Ismael
Deanship of Scientific Research

Dr. Abdulla Mohamed Al-Sadiq
Deanship of Scientific Research

Dr. Abdulrahman Buali
Deanship of Scientific Research

Prof. Abdulrahman Musaiger
Deanship of Scientific Research

Colleges Representatives of Scientific Research Newsletter

Dr. Ebrahim Al. Rahman
College of Engineering

Dr. Khadija Abdulla Zainal
College of Science

Dr. Salah Mohamed Ahmed
College of Law

Dr. Mayyadah Faisal Abdulhaleem
College of Information Technology

Dr. Dheya Abdulla Al-Kaabi
College of Arts

Porf. Riyadh Jassim Al-Abdullah
College of Business Administration

Dr. Hussain Jaffer Mahdi
College of Sportive Education Physicaltherapy

Mrs. Anwar Abdulla Mohamed
College of Applied Studies

Dr. Sana Al-Haddad
College of Bahrain Teachers
Dr. Gehan A. Mousa
College of Business Administration

Published three papers in 2011:

Dr. Hanada Taha – Thomure Associate Dean, Associate Professor of Arabic Language, Education Bahrain Teachers College

published two books:
1- Arabic Language Through Dialogue Volume I Published by: Montezuma Publishing, San Diego State University
2- Standards Based Instruction in the Arabic Classroom Published by: Academia International – Beirut.

Dr. Fatima El Hamyani
Assistant Professor & Coordinator Of
Arabic Language & Islamic Studies Department Bahrain Teachers’ College

attended a seminar with the theme: “Multilingualism and Education” and presented a paper “Challenges of Language & Educational Reform in the Gulf Region, The Case of Bahrain” organized by 1st International Conference on Cultures and Languages in Contact Culture Research Group (MCRG) at the Faculty of Letters & Human Sciences El Jadida 23-24 November, 2011

Topics:
Requirements and perspectives of educational reform
Paradox between the Second Language Skill and Curriculum assimilation Immersion Teaching, bilingual Instruction methods and outcomes in this perspective: Assessment methods and outcomes in this type of teaching and learning process:

Recommendations
Dr. Abdelmohsen Desoky
Head of the Accounting Department,
College of Business Administration

contributed in Publishing the following paper in 2011:


This paper mainly empirically investigates the impact of ownership concentration and identity on firm performance using a sample of 100 of the most active publicly listed companies on the Egyptian Exchange (EGX). The study extends previous literature in this area and provides answers to two main research questions: Does concentrated ownership impact on firm performance? and does the relationship between large shareholders and firm performance depends on who the large shareholders are?

Dr. Elsayed Ali Habib,
Management and Marketing Department,
College of Business Administration

Published the following Articles in 2011:


Dr. Abu-Jafar Mohammad Sufian,
Department of Management and Marketing,
College of Business Administration

Is preparing a book to be published:

“Stochastic Processes and Their Applications in Business”.

Dr. A. Fatah Jabr
Associate Professor Arts College

Published the following Papers:

1- “Genre Analysis of Academic Discourse”, being reviewed for publication in Journal of Human Sciences, Bahrain University
2- “Coherence in Arab students’ Writing in English” being reviewed for publication in ‘College Composition and Communication’, Florida State University, USA.
3- “Translation Skills and Strategies: A textbook for Arab Students”. A book designed to be used in translation classrooms at Arab universities. This book will hopefully completed towards the end of this year.
Dr. Hasan Mohsin Al-Wadi Assistant Professor  
Bahrain Teachers College (BTC)

Presented a Lecture Title: Voices from the Profession: “How NESTs differ from Us!”
In British Council / Bahrain Branch


The seminar investigates the Non-native speakers’ perceptions of their Native-Speaker colleagues which has become a controversial issue in TESOL. The lecturer showed how the Bahraini teachers’ perceptions of their native-speaker colleagues as solely those who belong to Anglo-Saxon society have led them to perceive many differences than similarities when teaching English and how that negatively affected their teaching styles while teaching English.

Dr. Nina Abdul Razak Bahrain Teachers’ College  
Assistant Professor & Head of Curriculum Studies

published a Working Paper entitled: Problem-Based Learning in the Educational Psychology Classroom: Bahraini Teacher Candidates’ Experience


Problem-based learning (PBL) is a strategy through which students learn course content by analyzing and solving real-life problems related to the course and in Bahrain, it is a strategy that is seldom applied, if at all, in classroom contexts other than those of the medical sciences. In this sense, the current study was somewhat unique and it focused on exploring the effects of, and the students’ reactions to PBL.

Dr. Faten S.M. Abdel-Hameed, Associate Professor  
and Science Subject Leader at Bahrain Teachers College,

has been invited to deliver a seminar-lecture titled “Implementing a Curriculum for Excellence, the Bahrain Policy”, at the Center for Leadership and Diversity, Ontario Institute for Studies in Education (OISE), University of Toronto, Canada, on February 9, 2011. Published by: www.oise.utoronto.ca/cld/Events/index.html
Dr. Myint Swe Khine Head of Graduate Programs and Research, Bahrain Teachers College

has published the following books:


This book presents recent studies in game-based learning and reports continuing attempts to use games as new tool in the classrooms.


This book identifies pertinent issues related to practitioner research and describes recent attempts in theorizing teacher research, outlining research agenda, promoting the culture of teacher-led research, building capacity, developing models and examining current thinking about practitioner research.


This book critically examines the role of video games in education, arguing that they encourage strategic thinking, planning, communicating, negotiation skills, multi-tasking and group decision-making. It is also observed that video games promote higher levels of attention and concentration among players.
Published with other authors the following papers in 2011:


Dr. Humood A. Naser, Biology
Department, College of Science

Published two papers:

Attended two conferences in 2011:
Jubail International Environment Conference. 5-6 June 2011, KSA.

Miss Ebtisam Isa Bin Butti,
Lecturer, Biology Department
College of Science

performed the following scientific activities in 2011:
3- Participated as a judge at ARKIS Science week Celebrations 2011.
4- Attended a workshop on “Advanced skills for the filming and television lighting”,2011.
5- Attended a workshop on “Nanotechnology in Higher Education” June 2011.
6- Attended a workshop “تصميم و إنتاج الكتب الإلكترونية” مارس 2011.”
Dr. Muhammad Akram,
Associate Professor,
College of Business Administration

1- Participated in WCE2011, the World Congress on Engineering 2011, held at Imperial College, London, U.K.; 6-8 July, 2011. He presented a paper in this congress:

“Statistical Linear Dynamic Control of Automatic Devices”

This paper was jointly written with Dr. Jamal Tariq Mian of the University of Engineering and Technology, Lahore, Pakistan is published in the refereed proceedings of the congress.

2- Acted as a member of Expert Review Panel of the textbook:


In this book, as a member of the Panel, he identified fatal theoretical and conceptual mistakes and suggested corrections. His contribution was appreciated and acknowledged by the author and the publisher.

Dr. Essam Janahi
Associate Professor,
Biology Department, College of Science

performed the following scientific activities in collaboration with Maysoon Awad and Shereen Awadh:

1- Publishing a paper “Public knowledge, risk perception, attitudes and practices in relation to the swine flu pandemic: A cross sectional questionnaire-based survey in Bahrain” in “International Journal of Collaborative Research on Internal Medicine & Public Health” Vol. 3 No. 6 (June 2011).

2- Giving a presentation “Public knowledge, risk perception, attitudes and practices in relation to the swine flu pandemic: A cross sectional questionnaire-based survey in an Arabian Gulf population” in the “4th international influenza conference Influenza2011: Zoonotic Influenza and Human Health” 7-9 September 2011, St Hilda’s College, Oxford, UK.

Dr. Ahmed Abdulrahman Taha,
Chemistry Department, College of Science


The objective of this study is to test the suitability of the extended Hammett-Brown equation, in depicting satisfactorily additive effects of electronegative atom-bearing substituents which are known to possess diverse and multicomponent influences on the side-chain reactions of polysubstituted benzenes.

2- Attended EPS Infectious Diseases conference held in Montreal, Canada 7-8 September 2011, and presented a paper titled “Acetylenes and Dichloroanisoles...”.

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M. J. S. Shahwan  
Department of Mathematics,  
College of Science


In this paper we derive some generating relations involving Incomplete 2D Hermite polynomials (I2DHP) \( (x, y) \), \( h(x, y) \), \( m \), \( n \), of two-variable, two index and one parameter using Lie-theoretic approach. Certain (known or new) generating relations for the polynomials related to I2DHP are also obtained as special cases.

Dr. Nabil M. Hewah  
Computer Science  
Department, College of IT

presented a paper entitled “Intelligent Tutoring Systems” in a Seminar held on 28/12/2011.

This presentation is to give a clear definition for teaching approaches such as E-learning and Multimedia. The main topic to be presented is the Intelligent Tutoring Systems (ITS), how they differ from other e-learning or ordinary approaches and what is their structure. A set of real examples on various domains will be stated. Finally the presentation will show some of the recent and new directions in ITS.

Dr Yousif Harrath  
Department of Computer Science,  
College of IT

Contributed to writing an article to be published in the International Journal of Production Research entitled:

“Robustness of multiobjective scheduling solutions of a job shop under preventive maintenance constraints” in collaboration with M. Sassi, M. Ben Aliand, Y. Harrath

This paper is examining the robustness of a set of pareto optimal solutions to a scheduling problem in a job shop. The experimental results showed that the initial set of pareto optimal solutions is considerably reduced and the decision of which pareto optimal solution to adopt became easier for the user.

Dr. Tariq A. Alalwan  
College of Science

Attended a Workshop on “Nanotechnology in Higher Education” at UOB on 14 June 2011.
Published the following in 2011:


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**Dr. Layla J. Hazeem**

**Biology Department, College of Science**

is conducting a study of “Marine life in Arad bay” in cooperation with the General Authority for the Protection of Marine life.

Arad bay is one of the marine protected areas in Bahrain and the General Authority for the Protection of Marine life aims to identify the physical, chemical and biological factors that lead to the development of red tides in that biologically important area.

The study will last for one year and water samples will be collected on monthly basis for analysis.

Water samples have been collected from Arad Bay from of December, 2010- to January, 2012 and from May, 2011- to July, 2011. Water samples were analyzed to determine the presence and development of red tides caused by a potentially harmful algae “Bysmatrum granulose”.

Upon the completion of this monitoring study, appropriate recommendations will be made to prevent the development of red tides in that area in future.
Dr. Wasan Shaker Awad, Information Systems Department, College of IT

presented a paper entitled “Designing Stream Cipher Systems Using Genetic Programming”, in Learning and Intelligent Optimization, 5th International Conference, LION 5 Rome, Italy. The paper was published by Carlos A. Coello (Ed.), January 17-21, 2011, PP. 108-120.

Genetic programming is a good technique for finding near-global optimal solutions for complex problems, by finding the program used to solve the problems. One of these complex problems is designing stream cipher systems automatically. Steam cipher is an important encryption technique used to protect private information from an unauthorized access, and it plays an important role in the communication and storage systems. In this work, we propose a new approach for designing stream cipher systems of good properties, such as high degree of security and efficiency.

Dr. Orlando S. Catuiran Jr. and Dr. Jafla Al-Ammary,
Information Systems Department, College of IT

are conducting two research projects (in progress):

Research Title: “Virtual teams: a way for implementing a collaborative environment at university of Bahrain”. This research is aimed at investigating the effect of using IT in enhancing the collaborative work and virtual teams as a way for implementing a collaborative environment at University of Bahrain.

Research Title: “Bahrain’s e-Government Services: A study of its Impact to the Consumers (a G2C Perspective)”. This research will be able to show the different perspectives in which the e-Government services are impacting the consumers whether positively or negatively and will open doors to identify ways and means to sustain and keep improving the positive impacts and remedy or address the negative or having low impacts to deliver more beneficial e-services to the consumers.

Dr. Muhammed J. S. Shahwan
Department of Mathematics,
College of Science


In this paper we derive some generating relations involving Incomplete 2D Hermite polynomials (12DHP) ( , ; ) , h x y τ m n , of two-variable, two index and one parameter using Lie-theoretic approach. Certain (known or new) generating relations for the polynomials related to 12DHP are also obtained as special cases.
Dr. Khadija Zainal,  
Biology Department,  
College of Science

performed the following scientific activities in 2011:

A selected set of indicators were highlighted based on the criteria previously introduced by the UN-Commission for Sustainable Development (CSD) studies.

2- Poster presentation at the above conference: “Natural diet and feeding behavior of the commercial sand crab Portunus pelagicus (L.) 1766 along the coastal area of the Kingdom of Bahrain”.

The purpose of this study was to investigate the natural diet and feeding of Portunus pelagicus. Diet analysis data provides the basis for understanding ecological and behavioral aspects of the species and assessing its potential for mariculture.

Completed successfully the PCAP Programme organized by the St.J York University, UK – UOB 2010-2011.

Dr. Maheen G.R. Al Dairi  
Biology Department,  
College of Science

attended a scientific conference entitled "Gulf 2: The state of the Gulf ecosystem" during the period 7-9 February 2011. The presented paper was “The Effect of different Environmental factors on larva hatching and development of Sea urchin, Brine shrimps, Brown spotted grouper and Sobaity sea bream.

Professor Omar Juhmani,  
Department of Accounting,  
College of Business Administration

is conducting a study entitled:  
“Factors Influencing the Extent of Corporate Compliance with IFRS: Evidence from Companies Listed in Bahrain Stock Exchange” (Research in Progress).
Dr. Suhaila E. AlHashemi, Assistant Professor, Department of Management & Marketing, College of Business Administration

published recently the following papers:

1- The Relationship Between Leadership and Emotional Intelligence, Consideration from The Kingdom of Bahrain, to be published 1st issue in 2012, Emerald Publishing.

2- The Effect of Interpersonal Communications on Employing Commitment and Satisfaction, International Journal of Islamic and Middle Eastern Finance and Management, Emerald Publishing, vol 5, issue 12, 2012


Farkhanda Shamim, Assistant Professor Department of Economics & Finance, College of Business Administration

is conducting a study entitled “Performance of the Investment Firms in Bahrain”

Bahrain financial sector is considered to be one of the most growing and essential parts of the GCC financial sector. The information obtained from the proposed study can be used for a variety of purposes. It will guide government policies by assessing the effects of various regulatory changes on the efficiency. Managerial performance can be improved by identifying “best practice” and “worst practice” associated with high and low efficiency firms, respectively. It will also provide a comprehensive representation of the true performance of the investment firms over the last decade for policy makers who are looking for stronger competitive positions for Bahrain financial sector in the region.

Dr. Hussein Ali Khasharmeh, Department of Accounting, College of Business Administration

is conducting two studies (in progress):

1- “The extent of commitment in auditing offices and corporations within Bahrain to apply audit quality characteristics in the light of International Auditing Standards (220) - An empirical study”.

2- “The Corporate Social Responsibility Disclosures (CSR) on the Internet: Evidence from the Gulf Cooperation Council (GCC) Countries”.
Activities & Publication

Dr. Abdulfattah M. A. Aljabur Associate Professor, English Language and Littérateurs Arts College

Published the following papers in 2011:

“Genre Analysis of Academic Discourse”, being reviewed for publication in Journal of Human Sciences, Bahrain University

“Coherence in Arab students' Writing in English” being reviewed for publication in ‘College Composition and Communication’, Florida State University, USA.

“Translation Skills and Strategies: A textbook for Arab Students”. A book designed to be used in translation classrooms at Arab universities. This book will hopefully be completed towards the end of this year.

Dr. Sana Saeed Al-Haddad Assistant Professor at Bahrain Teachers College

The German publisher Lambert Academy published in book form the PhD thesis by Dr. Sana Saeed Al-Haddad Assistant Professor at Bahrain Teachers College (BTC), because of its scientific and educational value. The book is entitled “Pupils’ understanding of Probability and Statistics: An investigation of 12-16 years old pupils’ “Understanding of Probability and Statistics in the Kingdom of Bahrain”.

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