

International Conclave on Innovations in Engineering & Management (Oman Vision 2020: Opportunities & Challenges)

Feb.24-25, 2016 (Revised Date)

Supported by



CHIEF PATRON

Prof. (Dr.) Manoj Kumar Mishra Vice-Chancellor, BIT, Ranchi (India)

PATRON

Dr. Zuhoor Abdullah Salim Al-Khanjari Chairperson, Trustee Council, WCAS



WALJAT COLLEGE OF APPLIED SCIENCES

In Academic Partnership with

BIRLA INSTITUTE OF TECHNOLOGY, RANCHI, INDIA

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ABOUT THE CONCLAVE:

Waljat College of Applied Sciences (WCAS) in academic partnership with Birla Institute of Technology (BIT) International Centre, Muscat, is actively engaged in providing strong linkages and a common forum to the Academicians of various aspects of Applied Sciences and Management. The conclave is an approach to get Corporate Professionals, Academicians, Research Scholars and Students together on a single platform for an in-depth discussion on critical themes in the areas of Management & Applied Sciences particularly in Computer Science & Information Technology and Electronics & Communication. The conclave will also provide a forum to Research Scholars, Engineering and Management students for sharing their knowledge through Doctoral Research Paper Competition, Case Study Competition and Student Research Paper Competition.

ICIEM-2016 will also concentrate on numerous topics of Engineering & Management by realistic revelation in the form of dedicated sessions, group discussions and distinguished speeches from the foremost academicians.

With a view to develop understanding and co-operation and to provide a perfect opportunity to stay abreast with latest developments in all these important fields, an International Conclave on Innovations in Engineering & Management (Oman Vision 2020: Opportunities & Challenges) (ICIEM-2016) is being organized at Waljat College of Applied Sciences, Muscat from Feb. 24-25, 2016.

WHO CAN PARTICIPATE IN THE CONCLAVE?

Academicians

Information Scientists /Information Officers / Information Managers

IT Professionals / LIS Professionals

Engineers

Policy Makers/HRM/Administrator / Strategic Managers

Research Scholars

Students

Any other professional concerned



AUTHOR GUIDELINES:

Participants are invited to submit original, unpublished papers on themes mentioned in the ICIEM-2016 brochure attached. A soft copy of the abstract covering the title, author's name, co-author's name, affiliation (Maximum 300 words) with 5 keywords as per guidelines mentioned below:

Font Size:

- i) Times New Roman
- ii) Spacing

TC = 12

References:

i) Papers related to Contemporary Issues, = APA 6th Edition

Management and Library & Information Science

ii) Papers related to Engineering

= IEEE

NOTE:

Authors are requested to submit their papers through Easy Chair: https://easychair.org/conferences/?conf=iciem2016

All papers will be checked by Turnitin - plagiarism checker



THEMES ENGINEERING AND MANAGEMENT

SUB THEME: I.CONTEMPORARY ISSUES (OMAN):

- Automobile Market in G.C.C.
- FDI in Oman
- Financial Institutions / Markets & its Status in Oman
- G.C.C. Railways / Oman Railway Project
- Islamic Banking System
- Multicultural Work Force in Oman
- Oman Economic Policies
- Tourism in Oman

- Port Management
- Public Distribution System
- Role of Academic Institutions in Development of Oman
- Quality Management in HEI's in Oman
- Supply Chain & Logistic Management
- Taxation in Oman

II. ELECTRONICS AND COMMUNICATION ENGINEERING

- ASIC and Embedded Systems Optoelectronic Devices
- Audio and Video Processing
- Circuits Modeling
- MEMS
- Microwave Devices
- MIMO, Biomedical Signal Processing
- MOSFET/ CMOS Design
- Nano-Scale Devices Metamaterials
- Optical Code Division
- Nanotubes

- Optimization Sensors & Actuators
- Photonics
- RF, Analog and Digital Systems Synthesis
- Robotics
- Signal Filtering, Detection and Estimation
- Smart Antennas
- System on Chips (SoC)
- Wideband, Multiband Antennas
- Wireless, Mobile and Sensor Networks



III. BIOTECHNOLOGY:

- Biomaterials
- Biological Waste Management
- Bioprocess Engineering
- Biosensors
- Environment
- Food Processing Technology
- Stem Cell Technology

- Molecular and Genetic Engineering
- Nanotechnology
- Petroleum Biotechnology
- Pharmaceutical Biotechnology
- Protein Engineering
- Bio Statistics

IV. COMPUTER SCIENCE AND ENGINEERING

- Android & Mobile Applications
- Artificial Intelligence
- Cloud Computing
- Complier & Interpreters
- Computer Gaming
- Cryptography
- Cyber Crime and Cyber security
- Data Mining
- Data Structures & Algorithm

- Development of Social Apps
- Decision Support System
- Distributed Computing
- Digital Forensic
- Fuzzy Logic
- Genetic Algorithm
- IT Governance
- Image Processing
- Information Security Audit
- Mobile & Wireless Computing

- Network Security
- Neural Networks
- Operating Systems
- Parallel Computing
- Security of B2C Commerce
- Semantic Web
- Software Engineering
- Web and Internet computing
- Web Mining

V.ELECTRICAL& ELECTRONICS ENGINEERING:

- Materials in Engineering
- Power System Engineering
- Rural Energy Planning

- Smart Grids and Micro Grids
- Solar Thermal and Photovoltaic System
- Hybrid Systems



VI. MECHANICAL ENGINEERING:

- Advanced Manufacturing Processes
- Design of Machine Elements
- Design Energy Conservation & Management
- Fluid Mechanics and Machinery
- Heat and Mass Transfer
- Industrial Engineering & Management

- Manufacturing Systems
- Material Sciences
- Refrigeration and air conditioning
- Simulation & Modeling in Mechanical Engineering
- Thermal Science and Engineering
- Interdisciplinary Topics in M.E.

VII. LIBRARY & INFORMATION SCIENCE:

- Change Management & Leadership
- Collaborative Content Creation
- Copyright Issues for E-Resources
- Emerging Library Technologies
- HRM: Significance and Challenges
- Impact of MOOCs on Libraries
- Innovative Strategy

- Integrated Library Management Systems
- Learning Management System
- Research and the New Publishing Paradigm
- Trends and Challenges in Research on LIS
- Total Quality Management

VIII. MANAGEMENT:

Human Resource Management

- Competency Mapping
- Cross Cultural H R Perspectives
- Ethics in Management
- Leadership
- Managing Human Capital

- Motivation Strategies
- Organizational Development & Change
- Strategic Human Resource Management
- Training & Development
- Total Quality Management



Entrepreneurship

- Culture and Entrepreneurship
- E- Entrepreneurship
- Entrepreneurship & Innovation

- Gender and Entrepreneurship
- Global Entrepreneurship
- Networking & Entrepreneurship

Economics

- Agriculture Economics
- Cooperatives
- Economic Development
- Financial Economics
- International Economics

- Labor Economics
- Managerial Economics
- Monetary Policy
- Planned & Mixed Economics

- Public Finance
- Sports Economics
- Tax Policy
- Welfare Economics

Marketing Management

- Advertising Management
- Brand Management
- Consumer Behavior
- Customer Relationship Management
- Ethical Issues in Marketing

- Green & Sustainable Marketing
- Internal Marketing
- Marketing Strategy
- New Media Format
- On-line Marketing & Social Media
- Retailing
- Service Marketing
- Viral Marketing
- Interdisciplinary Topics in Marketing Management

Accounting & Finance

- Auditing
- Corporate Finance
- Derivatives
- Electronic Orientation in Financial Sector
- International Financial Reporting Standards

- Managerial Accounting
- Management Control System
- Mergers & Acquisitions
- Social Accounting
- Green Accounting



IX. NATURAL SCIENCES:

- Atmospheric & Solar Sciences
- Plasma Science & Technology
- Nuclear Physics
- Energy Studies

- Statistical Physics
- Condensed Matter Physics
- Mathematics of Computation

- Photonics
- Fundamental Physics
- Statistics / Mathematics

X. COMPETITIONS:

- Business Plan Competition
- Doctoral Research Competition

Case Studies Competition

The themes for the Research Papers / Case Studies / Conceptual Papers and the articles are not restricted to the above mentioned topics, other interdisciplinary contribution in emerging areas are also invited.

NOTE:

- i) Best Paper Award will be given in each disciplines presented at the conference.
- ii) Papers presented in absentia are also eligible to be included in the conclave proceedings provided the registration fee RO 30.00 for faculty members and RO 20.00 for research scholars is paid.

IMPORTANT DATES TO REMEMBER:

ABSTRACT SUBMISSION : 30/09/2015 (Extended Date)

SUBMISSION OF FULL PAPER : 30/10/2015 (Extended Date)

FINAL ACCEPTANCE OF PAPER : 15/11/2015 ((Extended Date)

SUBMISSION OF PAPERS THROUGH EASY CHAIR: https://easychair.org/conferences/?conf=iciem2016



REGISTRATION FEES:

	Early Bird by November 30, 2015		After November 30, 2015	
Delegates	With Accommodation	Without Accommodation	With Accommodation	Without Accommodation
International Participant	*OMR 130 Including Visa Fee	OMR 70 Including Visa Fee	OMR 150 Including Visa Fee	OMR 90 Including Visa Fee
International Participant One Accompanying Person	*OMR 195 Including Visa Fee	OMR 135 Including Visa Fee	OMR 215 Including Visa Fee	OMR 155 Including Visa Fee
International Ph.D. Student	**OMR 90 Including Visa Fee	OMR 60 Including Visa Fee	OMR 120 Including Visa Fee	OMR 60 Including Visa Fee
International Student	**OMR 70 Including Visa Fee	OMR 40 Including Visa Fee	OMR 90 Including Visa Fee	OMR 60 Including Visa Fee
G.C.C. Single Participant	**OMR 95	OMR 65	OMR 115	OMR 85
G.C.C. Participant One Accompanying Person	**OMR 145	OMR 85	OMR 165	OMR 105
Local Participants	OMR 40 (Without Accommodation)		OMR 40 (Without Accommodation)	
Local Research Scholars & Students	OMR 20 (Without Accommodation) in Engineering &		OMR 35 (Without Accommodation)	

^{*}Single Room ** Hotel Apartment Sharing Basis

NOTE: Registration fees includes:

i. Conference Kit

ii. Lunch for two days

iii. Day one Dinner

iv. Accommodation for Two Nights only

v. Sightseeing

Hotel Links Safeer Hotel : http://www.booking.com/hotel/om/safeer

Hotel Muscat International : http://www.booking.com/hotel/om/muscat-international

Hotel City Season : http://www.booking.com/hotel/om/city-seaons

Hotel Ibis : http://www.booking.com/hotel/om/ibis



INTERNATIONAL ADVISORY BOARD:

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TRUSTEE COUNCIL, WCAS:

Dr. Zuhoor Abdullah Salim Al Khanjari, Chairperson

Dr. Abdullah Al Zakwani, Vice Chairman

Mr. M. M. Khan, Member

Mr. Mohammed Bin Mirza Al Balushi, Member

Prof. B.K. Singh, BIT, Mesra, (India), Member

Dr. S.K. Bose, BIT, Mesra, (India), Member Mr. Salem Bin Nasser AI Bortmany, Member Mr. Saif AI Shmeli, Member Prof.(Dr.) S. L. Gupta, Dean, Member Secretary



ABOUT WCAS:

Waljat College of Applied Sciences is founded by **H.E. Dr. Omar Al Zawawi** in Muscat, with a mission to promote high international quality education in Oman that prepares students for modern, high quality jobs. WCAS has academic Partnership with Birla Institute of Technology (BIT), India.

WCAS is located in Knowledge Oasis, Muscat about 10 km from Muscat International Airport. It is recognized as a unique institution imparting quality education and training in Engineering, Computer Applications and Business Administration in Oman with a distinct mission to develop knowledgeable and socially responsible citizens with competence, skills and motivation that are capable to take up responsible positions in different sectors of the economy.

ACADEMIC PROGRAMS:

The following programs are offered by the College in Academic Partnership with Birla Institute of Technology (BIT)-the parent University:

BACHELOR DEGREE PROGRAMS

Engineering:

- i) Bachelor of Engineering in Biotechnology
- ii) *Bachelor of Engineering in Electrical & Electronics
- iii) Bachelor of Engineering in Computer science
- iv) *Bachelor of Engineering in Chemical
- v) Bachelor of Engineering in Electronics & Communication Engineering
- * * Proposal submitted to MOHE for approval

Computer Applications:

Bachelor of Computer Applications (BCA)



Management:

Bachelor of Business Administration (BBA)

Master Degree Programs:

- i) Master of Business Administration (MBA)
- ii) Executive Master of Business Administration (EMBA)

THE GENERAL FOUNDATION PROGRAM:

The aim of the General Foundation Program is to prepare students to gain the necessary skills in English Language and communication to enable them to enter into further studies. It also has introductory courses in Science, Information Technology, Statistics and Management. On successful completion of General Foundation Program Students are eligible for progression to related Bachelor Degree Program.

ABOUT BIT:

BIT Mesra, is a "Deemed University" under Sec. 3 of the U.G.C. Act 1956. The Board of Governors is responsible for the main functions and overall supervision of activities. It comprises representatives of the Ministry of Education, Government of India, the U.G.C., the State Government, the Chancellor, the AICTE, the Hindustan Charity Trust and the Institute Faculty. Shri C. K. Birla is the Chairman of the Board of Governors while the Governor of the State of Jharkhand officiates as the Institute's Chancellor. There's a Technical Council that decides the academic policy of the Institute.

BIT Mesra, had been conceived with a vision to be recognized as a world-class learning institution for engineering and technology. But it has moved beyond the fulfillment of a scholastic promise to re-defining education in the new age through creation of aptitude and comprehensive intelligence. Targets are achieved every day, only to make space for newer dreams. From the introduction of new academic programmes to restructuring current ones, from improving infrastructure to upgrading the teaching learning environment, overall development of the students has always been the focal point at Birla Institute of Technology. As a result, the institute enjoys an unsurpassed reputation in corporate circles, being the preferred manpower source for organizations across industrial sectors not only in India but overseas as well. https://www.bitmesra.ac.in.



ABOUT MUSCAT:

Muscat is the capital of Oman. It is also the seat of government and largest city in the Governorate of Muscat .Muscat is popularly known as the financial capital of Oman. The capital has a pride and grandeur of its own and has successfully blended the best of the ancient and the modern. The city has in the offering picturesque beaches, beautiful mosques, forts that are reminiscent of Muscat's glorious past and scenic gardens and natural parks. The climate of Muscat features a hot, arid climate with long and very hot summers and mild winters. Annual rainfall in Muscat is about 100 mm (4 in), falling mostly from December to April. In general, precipitation is scarce in Muscat with several months, on average, seeing only a trace of rainfall. The climate is very hot, with temperatures reaching as high as 49C (120F) in the summer. For sightseeing, the best time to visit Muscat is from December to March as the temperatures are moderate and pleasant, making it easy to move around. Between mid-March and October, travel is very exhausting with the average temperature between 31C to 38C and sunburn and dehydration are possible. (Source: http://en.wikipedia.org/wiki/Climate_of_Muscat)

POPULATR MUSCAT ATTRACTIONS:

Sultan Qaboos Grand Mosque Mohammed Al Ameen Mosque

Royal Opera House Bait Al Zubair

Amouage Perfumery Oman Oil and Gas Exhibition Centre

Qurum Beach Wadi Al Arbeieen

Ourum Natural Park Centre for Omani Dress

Bait Al-Baranda Qantab Beach

Ghalya's Museum of Modern Art Yiti

Natural History of Museum Children's Museum

PDO Planetarium Algehfi Valley

http://www.omanworldtourism.com/search.html



ABOUT SULTANATE OF OMAN:

Sultanate of Oman is a country in Southwest Asia, on the southeast cost of the Arabian Peninsula. It borders the United Arab Emirates in the northwest, Saudi Arabia in the west, and Yemen in the southwest. The coast is formed by the Arabian Sea in the South and East, and the Gulf of Oman in the Northeast. The country also contains Madha, an enclave enclosed by the United Arab Emirates, and Musandam and an exclave also separated by Emirati Territory.

Oman is rich in heritage and traditions with a blend of various features of modern lifestyle. Oman is a land of stunning landscapes, from plains to mountains and deserts to unspoiled beaches which stretch to 1700 km of pristine coastline. The breathtaking and splendid tourist attractions in Oman include various castles and forts, natural wonders, deserts, wadis, mountains, caves and a lot more.

The climate is predominantly pleasant from October to March. The Omani people are known for their warm hospitality and generosity in both social and professional context. With diversification strategies and sound policies, the Oman is consistently emerging as a modern nation with sound policies consistent to fast economic growth, sustainable development and global vision. (Source: http://www.omansultanate.com).

ORGANIZING SECRETARY, ICIEM-2016

Prof. (Dr.) S. L. Gupta Dean

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Please visit: www.waljatcollege.edu.om/

iciem-2016.php

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WALJAT COLLEGE OF APPLIED SCIENCES

In Academic Partnership with

BIRLA INSTITUTE OF TECHNOLOGY,

KOM, RUSAYL, SULTANATE OF OMAN

REGISTRATION FORM

Name:	Designation	:		
Institution:				
Department	Address:			
E-Mail:	Tele:/Mobile	e:		
PAYMENT DETAILS: Demand Draft is along with duly completed form in				
NOTE: Participants can also send t 720 996 0017 Bank Muscat under Dr. S. D. Khan Coordinator, ICIEM-2016		•	•	lumber : 045 201
Waljat College of Applied Sciences Phone: +968-24446660/ Extn. 202.				016@waliat.net

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ص.ب ۱۶۲۲ مسقط ۱۳۰ سلطنـــــة مـــان هاتف : ۴۹۲۸ ۲٤٥،۹۸۲۰ فاکس : ۴۹۲۸ ۲۵۰۹۸۲۰ الموقع : www.trc.gov.om



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