



Newsletter

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Department of Computing and Informatics

MAZOOON COLLEGE

Affiliated to Missouri University of Science and Technology, USA
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Dr. Juma Saleh Al-Ghailani
Managing Director



Dr. Khalfan Abdullah Al-Masruri
Dean

Mazoon College is a private academic institution that has operated under the supervision of the Ministry of Higher Education since 1997. It was established to provide higher education nationally and internationally in different fields. At present, it has thirteen programs at undergraduate level and three programs at postgraduate level. The Mazoon College is affiliated to Missouri University of Science and Technology, USA, Cooperated with Purdue University Northwest (USA) and with Banasthali University (India). The College gives high school graduates, international students, and employees the chance to gain the educational skills and the high technology to cope with the ever-changing modern development. The College, from its first establishment, has made firm steps towards the qualitative development of its performance to provide prestigious services. It is also aware of the need to conduct full review and continuous evaluation of its progression. It always seeks to provide itself with high quality academic and administrative staff and the addition of new majors required by the community and to develop its already existing capabilities.

Vision

Mazoon College aims to be a leading higher educational institution that concentrates on Academic Excellence, High Quality Research and Community Services.

Mission

The college strives to address the educational needs of its community through offering diverse programs and services assisting its students in meeting their educational needs and preparing graduates to be capable of making significant contributions to their fields of endeavor and society.

EDITORIAL DESK

Warm greetings to all the readers! The editorial committee is very happy to come out with the half-yearly issue of Newsletter. We take this opportunity to thank the Management, Dean and other contributors to this newsletter for their continuous support.

The CI Department of Mazoon College is proud to release its third volume of this newsletter. During this period, the faculty and students of CI had great opportunity to publish their research papers in various journals.

The last 6 months also witnessed various other activities that would build the image of the Department which include Guest Lectures, Industrial Visits, Seminars, Workshops and active participation by the students in extra-curricular and co-curricular activities.

A lot more interesting events are in queue and we believe that the continued efforts will take Mazoon College one step further towards achieving excellence.



EDITOR

Dr. A. MOHAMED ABBAS



CO-EDITOR

Dr. M. S. SALEEM BASHA

Augmented Reality (AR) Project

- **Dr. M.S. Saleem Basha** has developed an Educational Sector based Augmented Reality (AR) Applications in Sultanate of Oman. This AR Application is available in Google Play Store and Apple Store. This application has been implemented in GFP 304 - Foundation Computing II, ART80 – Art Appreciation and IST50 - Introduction to Management Information Systems at Mazoon College. The Android and Apple mobile app names are

MazoonCollegeAR, IT2C4

MazoonCollegeAR, IT2C5

MazoonCollegeAR, ART80C12

MazoonCollegeAR, ART80C111215

MazoonCollegeAR, ART80C51529

MazoonCollegeAR, IST50C1

MazoonCollegeAR, IST50C23

MazoonCollegeAR, IST50C456

Book Publications

- **Dr. A. Mohamed Abbas** has published a chapter in a book titled, “Internet of Things in Biomedical Engineering” – Elsevier Publication (In Press).

Funded Proposal Submitted

- **Dr. A. Mohamed Abbas** and Dr. M.S. Saleem Basha have submitted a proposal titled, “Oman Agriculture towards fourth dimension: Intelligent Agriculture Management System with low power consumption using IoT” to Smart City Platform (SCP) at The Research Council.
- **Dr. M.S. Saleem Basha** and Dr. A. Mohamed Abbas submitted a proposal titled “Smart Container Monitoring Management System for ports in Oman” to Smart City Platform (SCP) at The Research Council.

WORKSHOPS AND SEMINARS ORGANIZED

Workshop on “Internet of Things (IoT) Projects”

The workshop on “Internet of Things (IoT) Projects” was conducted by the Department of CI on 14/10/2018. The programme was convened by Dr. Mohamed Abbas, Head-CI and coordinated by Dr. M.S. Saleem Basha, Assistant Professor and Head-Research Center.



The guest speaker Mr. Talal Salim Ali Al Khnbashi, Ministry of Education has started the session with introduction of Internet of Things (IoT). He has explained operation principles of IoT and demonstrated the IoT projects as live demo. Mr. Talal has given the information about Smart Projects using IoT in Sultanate of Oman.



Seminar on “Introduction to Li-Fi Technology”

The seminar on “Introduction to Li-Fi Technology” was conducted by the Department of CI on 21/10/2018. The programme was convened by Dr. Mohammed Abbas, Head-CI and coordinated by Dr. Mohammad Daiyan, Assistant Professor.

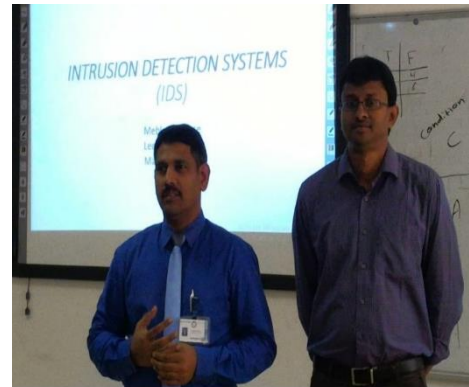
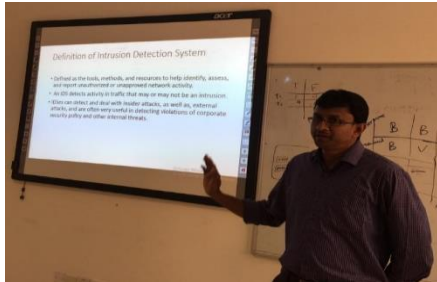
The seminar commenced with definition of Wi-fi and Li-fi, followed by explanation about objective, motivation, tools and techniques used in Li-Fi. In addition, Dr. Daiyan has given the benefits, application, challenges and scope of Li-Fi.



Seminar on “Intrusion Detection Systems”

The seminar on “Intrusion Detection Systems” was conducted by the Department of CI on 14/11/2018.

The programme was convened by Dr. A. Mohamed Abbas, Head-CI and coordinated by Mr. Meble Varghese, Lecturer.



The presenter had discussed the importance of IDS in industry, different detection methods used in IDS, the research challenges and future directions of IDS, advantages and disadvantages of IDS.

Seminar on “How the Internet of Things are changing everything?”

The seminar on “How the Internet of Things are changing everything?” was conducted by the Department of CI on 27/11/2018. The programme was convened by Dr. Mohammed Abbas, Head-CI and



coordinated and presented by Dr. Mohammad Aftab Alam, Assistant Professor.



The seminar commenced with the definition of Internet of Things, followed by its objective and motives for Internet of Things, benefits, application, challenges and future prospects.

Workshop on “Trendy HTML5”

The workshop on “Trendy HTML5” was conducted by the Department of CI on 05/12/2018. The program was convened by Dr.A.Mohamed Abbas, Head-CI Dept. and Coordinated and presented by Mr. Mohammad Arshad, Lecturer, CI Dept. The presenter has explained about the basics of HTML5, HTML5 for mobile and finally the hands-on training was given to the students.



INDUSTRIAL VISIT

Student Visit

The Industrial Visit at “Oman Data Park” was arranged by the Department of CI and Industrial Visit Committee on 28/11/2018 for senior and graduating students. The visit was headed by Dr. A. Mohamed Abbas, Head-CI and coordinated by Mr. Muqtadir, Chair of Industrial Visit Committee along with his team members.



The Oman Data Park technical team took all the students to their different departments namely Teleservices, Security Operation Centre, Network Operation center and to the Data Centre.



The students were exposed to many new devices and their operations by the technical team and were familiarized with all the devices and services used at Oman Data Park.

Faculty Visit

The CI Faculty members are visited the International Educational Fair.



FACULTY DEVELOPMENT / ORIENTATION PROGRAM ORGANIZED

Faculty Orientation on “Academic Advising”

The Faculty Orientation on “Academic Advising” was conducted by the Department of CI on 02/09/2018. The program was convened by Dr. A. Mohamed Abbas, HOD- CI and coordinated by Mr. Kareemullah Shaik, Lecturer.



The orientation session was given by Dr. A. Mohamed Abbas. He explained the procedure of academic advising to the faculty members.

Faculty Development Workshop on “Best Practices in Formal Faculty Mentoring”

The faculty development workshop on “Best Practices in Formal Faculty Mentoring” was presented and coordinated by Ms. Nadia Khalique, Lecturer, Department of CI on 13/09/2018. The academic staff from all the disciplines of the college attended the workshop.



The workshop focused on the importance of faculty mentoring, which is a collaborative relationship that proceeds through purposeful stages over time. The workshop also gives an insight into the implementation of formal mentoring process in Mazoon College. The goal is to help mentees acquire the essential competencies and constructive work relationships needed for their continued career vitality.

Staff Development Program on “Google Docs using Google Drive”

The Staff Development Program on “Google Docs using Google Drive” was conducted by the Department of CI on 03/12/2018. The session was presented by Dr. A. Mohamed Abbas, Head-CI Dept. He presented in detail about “What is Google Drive?”, “Components of Google Drive and their uses”, “What is Google Docs?”, “How to create a Google Docs?” and finally, live demo in Google Docs using Google Drive was presented to staff members.

STUDENT ORIENTATION PROGRAM ORGANIZED

New Master Students Orientation

Orientation program provides the opportunity for the freshers to orient themselves by getting familiar with the



institution, norms, culture, facilities, academics and examination system.

Department of Business & Economics and Department

of Computer Science & Information Technology conducted the orientation program for the new students enrolled in MBA and M. Tech program dated: 03/10/2018.



Dr. Khalfan Abdullah Al-Masruri, Dean, welcomed the new students and gave a motivational speech. Dr. Suhaila Abbas, Assistant Dean, felicitated the program by sharing her thoughts. Dr. U. Husain, Head of Business & Economics Department, presented a brief description of the institution and MBA



program. Dr. A. Mohammd Abbas, Head of Computer Science Department also discussed about the M.Tech Program to the students. The program was convened by Dr. Sheeba Khan, MBA Program Coordinator.

An Orientation Presentation to the 3rd Level Students in GFP on Academic Registration

Under the supervision of Dr. Mohamed Abbas, the Head of the Computer Science and Information Technology Department, the Admission and Registration Department in collaboration with the General Foundation Program conducted an orientation presentation on Academic Registration on 03/12/2018.

At the beginning of the session, Mr. Mohamed El-Amin, the Head of the General Foundation Program, inaugurated the program by briefly addressing the audience. Mr. El-Amin's speech highlighted the importance of the orientation session and stressed the significance of raising students' graduating from GFP awareness of the academic registration rules and regulations.



Ms. Thuraya Al-Abri, the Head of the Admission and Registration Department, gave a detailed account of the process of the academic registration. Her presentation included explanations of crucial issues related to academic registration such as academic advising, academic timetable, calculating Cumulative Grade Points Average, and academic probation.



Dr. Mohamed Abbas, the Head of the Computer Science and Information Technology Department, expressed his gratitude to all organizers and participants of the session. He also commended Ms. Al-Abri's comprehensive presentation and encouraged students to adopt a proactive approach in handling their academic challenges.



Journal Publications

- **Mr. Mohammad Arshad** and Dr. Mohammed Ali Hussain “A Real Time LAN/WAN and Web attack prediction framework using hybrid machine learning model” International Journal of Engineering & Technology (UAE), Vol 7, No.3.12, July 2018, ISSN: 1128-1136. (Scopus Indexed)
- **Mr. Mohammed Arshad** and Dr. Mohammed Ali Hussain, “Automatic Vulnerability Attack Detection and Prevention System For Web Security”, “International Journal of Pure and Applied Mathematics”, Vol. 120, No. 6, July 2018, ISSN: 9703-9721.
- **Mr. Abdul Muqtadir** and Dr. Syed Abdul Sattar, “Network Security Based on Chaotic Maps based authentication in vanets”, “Journal of Applied science and Computations”, Vol. 5, No. 12, pp: 280-292, December 2018, ISSN: 1076-5131. (University Grants Commission, Government of India Indexed)
- **Mr. Abdul Muqtadir** and Dr. Syed Abdul Sattar, “Network Security Based on Chaotic Maps based authentication in vanets”, “A Survey on secure routing protocols for VANET based on node trust”, Vol. 5, No. 4, pp: 915-920, December 2018, ISSN: 2348-1269. (University Grants Commission, Government of India Indexed)
- **Mr. Meble Varghese** and Dr. M Victor Jose, "Big Data and Cloud computing: Review and future trends", “International Journal of Computer Sciences and Engineering”, Vol. 6, No. 12, pp: 361-365, December 2018, ISSN: 2347-2693. (University Grants Commission, Government of India Indexed)

International Conference Paper Presentation / Participation

- **Ms. Nadia Khaliq** participated in “International Conference on Teaching and Learning Enhancement” which was held in July 2018, organized by London Metropolitan University, UK.

National Level Seminar / Workshop Participation

- **Mr. M.A. Muqtadir** participated in “National Level Seminar on Industrial Revolution-4 Summit” held in July 2018 organized by Department of Information Technology, Higher College of Technology, Muscat, Sultanate of Oman.

- **Mr. Mohammad Arshad** participated in “National Level Seminar on Industrial Revolution-4 Summit” held in July 2018 organized by Department of Information Technology, Higher College of Technology, Muscat, Sultanate of Oman.
- **Ms. Gazala Yusufi** participated in webinar on “Women in Engineering (WIE)” held in July 2018 organized by IEEE, USA.
- **Ms. Nadia Khalique** participated in webinar on “Women in Engineering (WIE)” held in July 2018 organized by IEEE, USA.
- **Dr. Mohammad Nasar** participated in “Oman IR 4.0 Meetup!” on 09/10/2018 organized by Higher College of Technology, Al Khuwair Muscat.
- **Dr. Mohammad Daiyan** participated in “Oman IR 4.0 Meetup!” on 09/10/2018 organized by Higher College of Technology, Al Khuwair Muscat.
- **Mr. Meble Varghese** participated in “Oman IR 4.0 Meetup!” on 09/10/2018 organized by Higher College of Technology, Al Khuwair Muscat.
- **Dr. M. S. Saleem Basha**, Assistant Professor has participated in the Second Workshop on the “New Funding Program (Institutional Based/Block Funding)” on 13/11/2018 at Institute of Oil and Gas organized by The Research Council, Sultanate of Oman.

GENERAL NEWS

Participation in Mazoon College Club Day

The Mazoon College Club Day was organized on 23/10/2018. The IT Club participated in the Club Day and explained about the activities of IT Club.



DEPARTMENT OF COMPUTING AND INFORMATICS

Degree and Major offers:

- **Associate Degree Program**
 - Computer Science
 - Information Science Technology
 - Management Information Systems

- **Bachelor Degree Program**
 - Computer Science
 - Information Science Technology
 - Management Information Systems

- **Master Degree Program**
 - Master of Technology (M.Tech) in Computer Science

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