



Newsletter

Volume 2, Issue 2
(January 2018 – June 2018)

Department of Computer Science & Information Technology

MAZOOON COLLEGE

(Affiliated with Missouri University of Science and Technology, USA)

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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 CS & IT Department of Mazoon College is proud to release its second volume of this newsletter. During this period, the faculty and students of CS & IT 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

STUDENT ACHIEVEMENTS

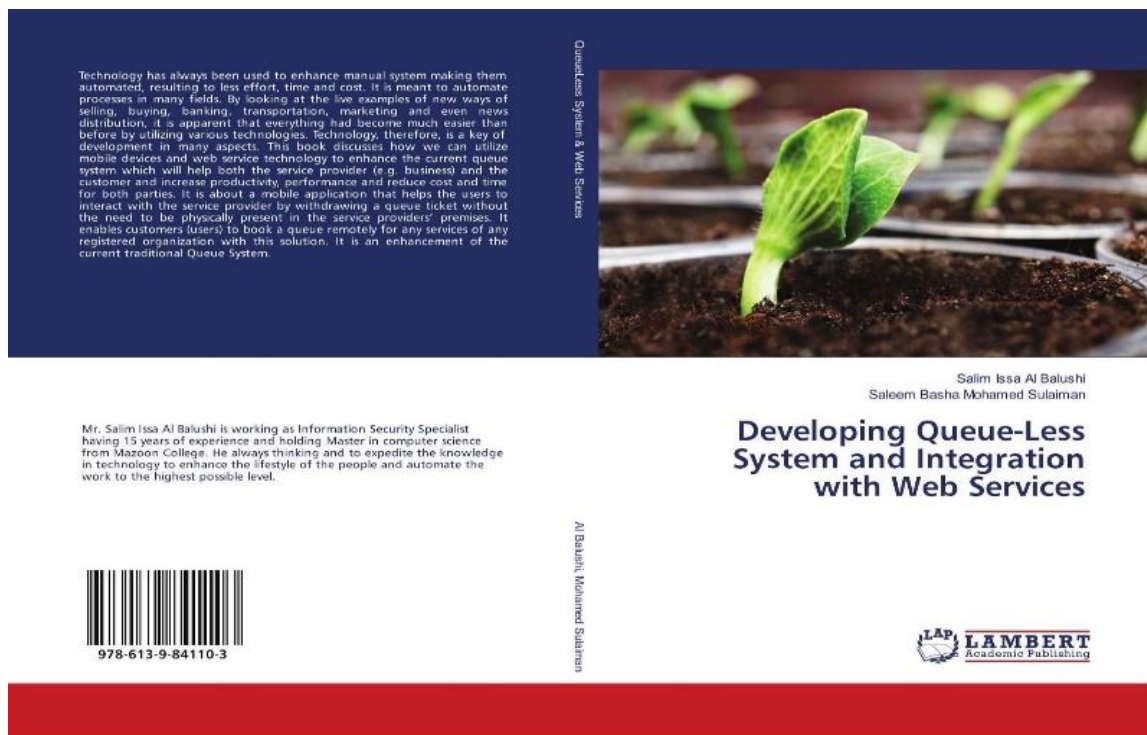
JOURNAL PUBLICATION

Ms. Nashwa Khair, M.Tech Student has published her M.Tech Project Work in the "IOSR Journal of Computer Engineering (IOSR-JCE)" in the title, "An Associative Classification Approach Using Data Mining for Predicting Phishing Email", Volume 20, Issue 2, pp 59 – 63, ISSN 2278 – 8727. She has completed her M.Tech Project Work under the supervision of Dr. Mohammad Daiyan, Assistant Professor, Department of CS & IT.

BOOK PUBLICATION

Mr. Salim Issa Al Balushi, M.Tech Student has published his M.Tech Project work as a Book in the title of "**Developing Queue-Less System and Integration with Web Services**", ISBN: 978-613-9-84110-3.

He is the first student to publish a book in Mazoon College. He has completed his M.Tech Project Work under the supervision of Dr. M.S. Saleem Basha, Assistant Professor, Dept. of CS & IT and Head - Research Center, Mazoon College.



INDUSTRIAL VISIT

The Department of Computer Science and Information Technology, Mazoon College arranged a one day industrial visit on 20th March 2018 for the Undergraduate Students to explore IT facilities and data centre in Ministry of education, Muscat.



The visit was an indispensable part of under graduate program that helped students to get insights into the real world applications environment where students try to obtain the theoretical and practical exposure of the latest technologies which they study in different courses of their program.

A group of 19 students from Mazoon College participated in the Industrial Visit, led by Mrs.Rowaidah Al Abdullah, Committee Chair and Mr.Kareemullah Sheik, Committee Member.

WORKSHOPS AND SEMINARS ORGANIZED

National Level Seminar on “Advanced Trends in Information and Communication Technology (ATICT)”

The National Level Seminar on “Advanced Trends in Information & Communication Technology (ATICT)” was conducted on 26th April 2018. The programme was convened by Dr. Said Eid Younes, Dean and coordinated by Dr. A. Mohamed Abbas, HOD-CS & IT and Dr. M. S. Saleem Basha, Head-Research Centre.



The seminar started with the Quran recitation and the welcome address given by Dr. A. Mohamed Abbas, Head/CS&IT which was followed by the felicitation address by Dr. Said Eid Younes, Dean. Dr. Abdul Monem Al Kharusi, OMREN Director delivered the keynote address on “OMREN Role in HE-Oman”. Four eminent speakers were invited from renowned institutions to deliver the seminar on different topics related to ATICT.



The first session started with the topic "Mobile Cloud Offloading" delivered by Dr. Abderezak Touzene, Associate Professor, Sultan Qaboos University. The topic covered different advanced concepts in mobile cloud offloading and was very informative.



The second session was addressed by Dr. Huda Al Shuaily, HOD-IT, Higher College of Technology on the topic "Use of Technology in Education". The information shared by her was highly beneficial for use in colleges and universities.

The third session was held in the afternoon which was on "Wonders with Python" addressed by Dr. Haniffa Mohamed Nasir, Assistant Professor, Sultan Qaboos University. He shared a wide range of topics related to Python Programming.



Dr. S. Arockiasamy, Acting Dean, CEMIS, University of Nizwa, addressed the fourth session on the topic "Block chain technology: Software platform for digital assets". Many advanced concepts in block chain technology

were discussed in this session.



Seminar on "Digital Transformation of web with IOT"

The Seminar on "Digital Transformation of web with IOT" was conducted on 26th February 2018. The programme was convened by Dr. A. Mohamed Abbas, Head-CS&IT and Coordinated by Ms. Nadia Khalique, Lecturer. Around 30 participants from all the disciplines attended the seminar.



The seminar started with an introduction on "Internet of Things", a very interesting domain of this era. The participants were amazed to know the power of "The Internet of Things (IoT)" that could change our world. The seminar also gave an insight into the current status of IOT. While we are starting to see its incredible impact, we are still very much at the beginning of the transformational journey. Then the program concluded with a comprehensive set of visuals that showed the current state of affairs in the race to standardize IoT, along with what people were saying about it.

Seminar on "AJAX Technology"

The seminar on "AJAX Technology" was conducted on 20th March 2018. The program was convened by Dr. Mohammed Abbas, Head/CS&IT and Coordinated by Dr. Mohammad Nasar, Assistant Professor.



The seminar commenced with the Introduction to Ajax (Asynchronous JavaScript and XML). A group of interrelated web development techniques were used for creating interactive web applications. Increased responsiveness and interactivity of web pages could be achieved by exchanging small amounts of data with the server "behind the scenes" so that entire web pages do not have to be reloaded each time there is a need to fetch data from the server. This is intended to increase the web page's interactivity, speed, functionality and usability. The presenter explained about the application of AJAX, where to implement and how to implement AJAX in Asp.net, practically. One practical example was also demonstrated.

Seminar on "Research Basics-Benefits and its Uses"

The seminar on "Research Basics-Benefits and its Uses" was conducted on 01st March 2018. The programme was convened by Dr. Mohammed Abbas, Head-CS&IT and Coordinated by Mr. M.A.Muqtadir, Lecturer.



The seminar commenced with the differentiation between what is research and what is not research, followed by its objective, motivation and its types. Since research is an integral part of every educational institution, an urge of awareness regarding research was sensed and delivered through this lecture.

Seminar on "Data Center"

The seminar on "Data Center" was conducted on 18th March 2018. The programme was convened by Dr. Mohammed Abbas, Head-CS&IT and Coordinated by Mr. M.A.Muqtadir, Lecturer. The aim of the seminar was to bring awareness among the students to educate them regarding Data Centre.



The seminar was commenced with the importance of data center and its usage in today's world. A detailed discussion on the key elements required for a data center was discussed. The whole concept for this workshop was developed with an intention to help the students know the basic information regarding data center so that when they experience the real-time data center they could have a better understanding and could clear their doubts.

Workshop on “Designing free website with CMS (Wordpress)”

The workshop on “Designing Free Websites with WordPress” was conducted on 19th April 2018. The programme was convened by Dr. Mohammed Abbas, Head-CS&IT and Coordinated by Mr. Kareemullah Shaik, Lecturer.



The workshop commenced with a brief introduction on Content Management system, importance of website, traditional approach of designing free websites using WordPress. Students used the resources with enthusiasm and developed their own personal web sites, edited and published the same. The students of MIS, IST, ENG,

PSY and CS majors has attended Workshop.

Seminar on “Big Data”

The seminar on “Big Data” was conducted on 04th April 2018. The programme was convened by Dr. Mohammed Abbas, Head/CS&IT and Coordinated by Dr. Mohammad Daiyan, Assistant Professor.

The speaker covered the thrust areas of Big Data. He discussed about the definition of Big Data, followed by its objective, motivation, Tools used in Big Data, Risks of Big Data, benefits, application and future scope of Big Data. The students of MIS, IST and CS majors attended the seminar.



Seminar on “Trending IoT Use cases and Tools”

The seminar on “Trending IoT Use Cases and Tools” was conducted on 28th June 2018. The program was convened by Dr. Mohammed Abbas, Head-CS&IT and Coordinated by Mr. Kareemulla Shaik, Lecturer.



The seminar commenced with a brief introduction on IoT followed by its Trending IoT Use Cases, advantage, Tools, uses and application areas. Students were able to know how useful is this technology in many applications like Smart Homes, Smart Health, Smart cities and smart Utilities, collect the data from IoT devices and apply Big Data Analytics on it. The students of MIS, IST and CS majors has attended Seminar.



FACULTY DEVELOPMENT PROGRAM ORGANIZED

National Level Faculty Development Program on “Recent Trends in Internet of Things and its Applications”



The National Level FDP program on “Recent Trends in Internet of Things and its Applications” was conducted on 21st March 2018. The programme was convened by Dr. Mohamed Abbas , Head-CS&IT and Coordinated by Mr. Mohammed Arshad, Lecturer, CS & IT Dept. and Ms. Gazala Yousufi, Lecturer, CS & IT Dept.



A motivational speech in the felicitation form of facilitation address was delivered by Dr. Said Eid Younes, Dean with an intention to make use of this FDP an opportunity as a stepping stone for future research.

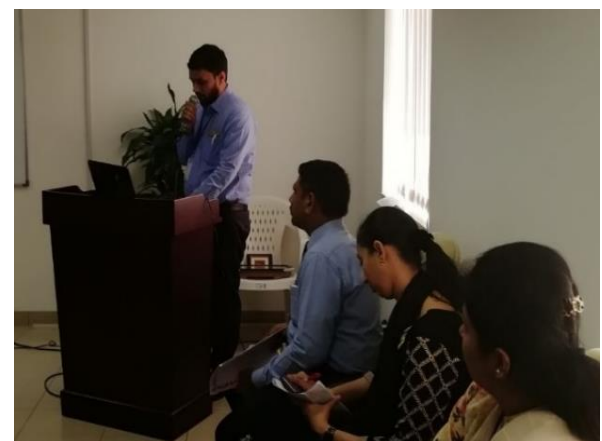


The first speaker for the session of the faculty development program was Dr. B. Balamurugan with the discussion on "Introduction to Internet of Things and advances in IoT Technologies". He focused on the past, present and future of IoT and also discussed the opportunities which lie ahead to the faculty members as a teacher and researcher for IoT in future.



The second speaker Dr. K. Suresh extended the program discussion with an intention to deliver a more in-depth discussion on "IoT tools, IoT with Deep learning using H2O, Advanced concepts in IoT and recent trends in IoT". He created an interesting environment where his major focus was on the advanced IOT concepts and tools.

The FDP session ended with a last session on "Real Time IoT Data Computing using Big Data Stream Computing Tools" by Dr. P. Rizwan. He focused on how live data will be used in future for predicting analyzing and responding quickly with a results when compared to currently used batch data. He also used certain sample codes to explain the audience to give an inner view of the technology.



STUDENT ORIENTATION PROGRAM ORGANIZED

Student's Orientation on "Top IT Career Trends for 2018"

The Student Orientation on "Top IT Career Trends for 2018" was conducted on 25th June 2018. The program was convened by Dr. A. Mohamed Abbas, Head-CS&IT and Coordinated by Ms. Gazala Yusufi, Lecturer.



Twenty-three students from various majors and disciplines including MIS, IST, CS, PSY, BUS, ECO and ACC attended the program with great enthusiasm.

Ms. Gazala Yusufi, Presenter & Coordinator started the student orientation on "Top IT Career Trends for 2018" with a brief note

about the latest IT technologies trending and the career opportunities for them. She informed the participants about the courses they can pursue to develop a fruitful career in these emerging IT sectors. The orientation was interactive with students participating and exchanging their ideas on the IT trends discussed.



Journal Publications

- Dr. Mohammad Abu Kausar and **Dr. Mohammad Nasar**, "An Effective Technique for Detection and Prevention of SQLIA by utilizing CHECKSUM Based String Matching", "International Journal of Scientific & Engineering Research", Vol. 9, No. 1, pp: 1177-1182, January 2018, ISSN: 2229-5518.
- Ms. Nashwa Khair, **Dr. Mohammad Daiyan and Dr. Mohammed Aftab**, "An Associative Classification Approach Using Data Mining for Predicting Phishing Email", "IOSR Journal of Computer Engineering (IOSR-JCE)" Vol. 20, No. 2, pp 59 – 63, April 2018, ISSN 2278 – 8727.
- **Mr. Mohammad Arshad** and Dr. Md. Ali Hussain, "Automatic Vulnerability attack Detection and Prevention System for web Security", "International Journal of Pure and Applied Mathematics (IJPAM)" (Scopus Indexed) (Article Accepted).
- **Mr. Mohammad Arshad** and Dr. Md. Ali Hussain, "A Real-time LAN/WLAN and web attack prediction framework using hybrid Machine Learning Model", "International Journal of Engineering & Technology (IJET-UAE)" (Scopus Indexed) (Article Accepted).
- **Mr. Kareemulla Shaik** and Dr. Md. Ali Hussain, "Broadcast Message Authentication Mechanism to Detect Clone and Sybil attacks in VANET's based on ID-Based Signature Scheme", "International Journal of Engineering & Technology (IJET-UAE)" (Scopus Indexed) (Article Accepted).

Conference Paper Presentation / Participation

- **Mr. Mohammad Arshad** presented a paper entitled "A Novel Multi Level Attack Detection and Prevention Model for Dynamic LAN/WLAN Networks" in the "International Conference on Internet of Things (IoT) and Cyber Security (ICICS-2018)" which was held in March 2018, organized by KL University and sponsored by Department of Science and Technology, Government of India.
- **Dr. Shamsheer Khan** presented a paper entitled "Allocation Problem with Fuzzy Sampling Cost in Stratified Sampling" in the "International Conference on

Operations Research and its Applications” which was held in April 2018, organized by Department of Mechanical and Industrial Engineering, College of Engineering, Sultan Qaboos University, Sultanate of Oman.

- **Ms. Nadia Khalique** participated in the “International Conference on Block Chain Oman 2018” which was held in May 2018, organized by BPOS Global, Sultanate of Oman.

National Level Seminar / Workshop Participation

- **Ms.Nadia Khalique** participated in “National Level Seminar on IoT (The Key Enabler of a Smarter World)” held in February 2018 organized by Sultan Qaboos University, Sultanate of Oman.
- **Ms.Gazala Yusufi** participated in “National Level Seminar on Role of SME's in Innovation, Employment and Economic Growth” held in April 2018 organized by College of Banking and Financial Studies, Sultanate of Oman.
- **Mr.Meble Varghese** participated in “National Level Seminar on Role of SME's in Innovation, Employment and Economic Growth” held in April 2018 organized by College of Banking and Financial Studies, Sultanate of Oman
- **Mr. Kareemulla Shaik** participated in “National Level Symposium on Internet of Things and Big Data” held in May 2018 organized by Department of Electrical and computer engineering, Caledonian College of Engineering, Sultanate of Oman.
- **Dr. A. Mohamed Abbas** participated in “National Level Symposium on Internet of Things and Big Data” held in May 2018 organized by Department of Electrical and computer engineering, Caledonian College of Engineering, Sultanate of Oman.

Additional Contributions to previous newsletter issue

Journal Publications

- **Mr. Mohammad Arshad** and Dr. Md. Ali Hussain, “A Novel Multi-level attack detection and prevention model for dynamic LAN/WLAN networks”, “Technical Journal of the Faculty of Engineering, University of Zulia”, Volume 40, Issue 3, pp: 194-204, December 2017, ISSN: 0254-0770. (Scopus Indexed)

Training Program

- **Mr. Abdullah Akhtar** participated in Short Term Training Programme on “Nonlinear Analysis and Optimization” organized by the Department of Applied Mathematics, Indian Institute of Technology IIT(ISM) Dhanbad, India during 18-22 August 2017.



GENERAL NEWS

- The farewell party was arranged for **Ms. Rajrani Gupta** on 26th July 2018. Ms. Rajrani Gupta has worked as a faculty in the Department of CS & IT from 19th January 2013 to 31st July 2018. We found her to be a hardworking and dedicated employee with professional attitude and excellent job knowledge.



CS & IT DEPARTMENT FACULTY MEMBERS



Standing (Right to Left):

S. No.	Name of the Faculty	Designation	S. No.	Name of the Faculty	Designation
1	Dr. Mohamed Abbas	Head-CS&IT	8	Dr. Toukeer Khan	Assistant Professor - Maths
2	Mr. Mohammad Arshad	Lecturer	9	Dr. Mohammad Daiyan	IT Unit Incharge & Assistant Professor
3	Dr. Jameel Hashmi	Head – QA & Asst. Professor	10	Dr. Mohammed Aftab	Assistant Professor
4	Dr. Saleem Basha	Head-Research Centre & Asst. Professor	11	Dr. Mohammad Nasar	Assistant Professor
5	Dr. Shamsheer Khan	Assistant Professor - Statistics	12	Mr. Kareemullah Sheik	Lecturer
6	Mr. Abdul Muqtadir	Lecturer	13	Mr. Meble Varghese	Lecturer
7	Mr. Abdullah Akhtar	Lecturer - Maths			

Sitting (Right to Left):

S. No.	Name of the Faculty	Designation
1	Ms. Amtul Ameera	Lecturer - GFP
2	Ms. Rajrani Gupta	Lecturer - Maths
3	Ms. Nadia	Lecturer
4	Ms. Rowaida Abdullah	Lecturer - GFP
5	Ms. Gazala Yusufi	Lecturer



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 eight programs at undergraduate level and two programs at postgraduate level. 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.

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Programs Offered:

- **Associate Degree Program (63 credit hours)**
 - Computer Science
 - Information Science Technology
 - Management Information Systems

- **Bachelor Degree Program (120 credit hours)**
 - Computer Science
 - Information Science Technology
 - Management Information Systems

- **Master Degree Program (130 credit hours)**
 - Master of Technology (M.Tech) in Computer Science

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