



ANNUAL REPORT

2016-2018

Step Stone for Intellectually Alive

Research Centre

Mazoon College, Muscat

INTRODUCTION

Mazoon College Research Centre is a platform for all faculties and students in Mazoon College where they can showcase their research findings in the diverse domains of Computers, IT, Business, and English Language and Literature. It focuses on the early stages of research areas to improve the professional and the academic strength of students and faculties. It seeks to motivate, inspire and enable professional research activities.

VISION

The Vision is to achieve excellence through research for all faculties and students.

MISSION

The mission is to deliver world-class advances in knowledge to the expected audience of Business, Computer and English majors and to adhere the policies and procedure laid by the Management and practice that will improve the professional qualities of the college, student, faculties and the communities.

OBJECTIVE

- To provide support in terms of funding to faculties and students both from the college and from outside.
- To enhance research culture among students and faculties.
- To provide guidance for research activities conducted by students and faculties.
- To provide training for research to students and faculties.
- To provide assistance to publish research articles in reputed journals within and outside the college.
- To extend the research support provided by external bodies.

RESEARCH THEME

Mazoon College has always extended encouragement for research in all its departments. Being aware of the importance and the benefits of research and related activities, Mazoon College has established 'The Research Centre' which was approved by the Ministry of Higher Education in 2014. TRC has formulated a five year strategic research plan which recognizes the dynamic nature of research. It is a living document which will be regularly reviewed and updated whenever necessary and will be thoroughly re-examined at the end of five years. Research Centre – Bi-Annual Report 2016 - 2018

Message from the Director of Research



It is my great honor to welcome you to Mazoon College, one of the most distinguished higher educational institutions in the Sultanate of Oman, founded in 1999. Mazoon University College is affiliated with Missouri University for Science and Technology (USA) which is known as one of the oldest universities in the United States of America, founded 180 years ago. We in Mazoon College are very proud of such academic affiliation and of being distinguished from our counterparts in our adoption of the credit-hour system in education.

The college mission is to equip its students with scientific qualifications and the necessary skills to help them cope with technological developments, the demands of the current era in order to serve their country. It also aims at providing an appropriate academic atmosphere and distinguished teaching, focusing on educational and cognitive factors and providing students with the necessary skills for meeting the labor market demand for well-qualified manpower.

We pray to God to grant us success in making use of all our academic and administrative potentials to serve our students and to develop this pioneering higher institution through setting the proper academic rules that help to maintain this university college as the pride of the Sultanate.

Dr. Jamal Dawood Salman
Director of Research

Members in Research Committee



Dr. Saleem Basha
Head of Research Centre



Dr. Sheeba Khan
Member



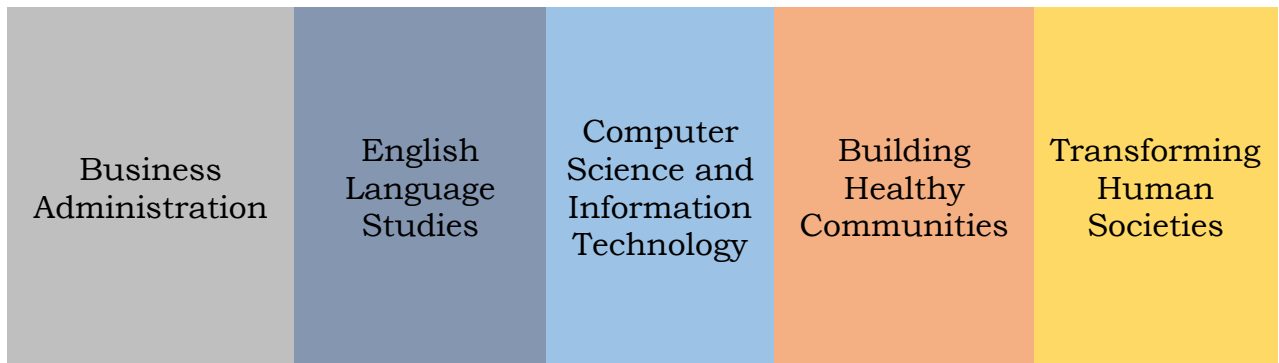
Dr. Bakhtiar Naghdipour
Member



Ms. Amiya Josh
Member

Research Focus Area

The research focus area is comprehensive and not limited to any specific domain. It includes problem identification and addressing of issues of national and international importance. It gives room to develop relations with diverse institutions and funding agencies which will enhance the knowledge of the researchers for the eventual benefit of the institution and its students.



Resources and Facilities

Mazoon College has a well-resourced laboratories and library to support all levels of study for the proposed program and related courses. It includes a sound collection of reference books, etc., Training & workshops are organized to supplement classroom learning. Resources are continually upgraded and provided other factors which might have an impact on students' academic performance. Students are given training in some of the courses studied to reinforce their learning including, Leadership, Emotional Intelligence, Problem Solving & Decision Making, Mock Teaching and Personality Development. Students with good performance are encouraged to acquire skills through community involvement as volunteer trainees.

The college is committed to provide the latest and best managed facilities to its faculty members. The teaching resources available on campus are 6 computer labs each having 35 computers, and a projector. The English multimedia lab is equipped with multimedia equipment and Language Lab Software. There are around 50 classrooms with LCD projectors. High speed internet connections are also available in the campus.

- Proquest is available for all the students and faculty members.
- IEEE membership for all the faculties of Computer Science Department

Research Events Conducted

Research Events Conducted by Research Centre:

1. National Level Seminar on “Advanced Trends in Information and Communication Technology (ATICT)” 26.04.2018.
2. Faculty Training on "Research Library Database & Business, Science & Technology Ebooks"18.04.2018.
3. Economic Symposium on “The Diversification of Income Sources as a Strategic Solution To Achieve Sustainable Development” 28.03.2018.
4. Library Website Orientation to Master Students, 19.02.2018.
5. Mazoon Library Webpage Inauguration, 15.02.2018.
6. Workshop on "How to Use Turnitin Tool", 08.02.2018.
7. Training in Turnitin, 02.03.2017.
8. Seminar on Master Projects and Funding Agencies, 10.10.2016.
9. AdHoc training to the students and faculty members during the Class Hours.

Research Events Conducted by Academic Departments:

Department of Business Administration and Economics

1. Workshop on Curriculum Mapping & Assessment of Learning Outcomes, November, 2016
2. Motivational and Self-Improvement Talks, October, 2016
3. Workshop on Importance of Psychology, December, 2017
4. Workshop on Research Methods, Statistical Tools, and SPSS Basics, December, 2017
5. Workshop on Supporting Small Business Development: Tools & Techniques, December, 2017
6. Workshop on Ambition as a Vital theme in our Life, November, 2017
7. Workshop on Accounting Software Information, November, 2017
8. Workshop on Psychology and the life, November, 2017
9. Seminar/Workshop on The Nature and Origin of Attitudes, November, 2017
10. Workshop on the Role of the Strategic Audit and Administrative Institution of the Sultanate of Oman Protecting the Public Assets, November, 2017
11. Workshop on Time Management for Improving Student' Achievement, October, 2017
12. Workshop on Investment Fund Management, October, 2017
13. Workshop on Evolution of Money, October, 2017
14. Workshop on How to Build Customer Relationship through Marketing & Promotion in Competitive Business Environment, June, 2017
15. Workshop on Children Upbringing: Reality and Ambition, April, 2017
16. Workshop on Habits of Effective Personality, January, 2017

17. Participation on Perceived risk of E-marketing & Digital Environment, March, 2017
18. Visit at Al Harub Medical Center, November, 2017
19. Visit at Huawei Technologies, Co. Ltd, MGM, November, 2017
20. Educational Trip to Al Masarra Hospital, April, 2017
21. Educational trip to College of Education, Sultan Qaboos University, March, 2017
22. Workshop on Accounting in Excell, April, 2018
23. Workshop on Risk Management, April, 2018
24. Workshop on Techniques for Preparing Students for Job Interviews, April, 2018
25. Workshop on Introductory Session on Entrepreneurship, March, 2018
26. Workshop on Behavior of Equities in Muscat Securities Market, February, 2018
27. Workshop on Habits of Effective Personality, February, 2018
28. Workshop on Multiple Intelligences, February, 2018
29. Participation at Entrepreneurship and Club Inauguration, HCT, March, 2018
30. Symposium on Future of Education and Jobs in the Age of Artificial Intelligence, March, 2018
31. Visit at Oman Development Bank, Ruwi, March, 2018
32. Visit at College of Education, Sultan Qaboos University, March, 2018
33. Visit at College of Education, Sultan Qaboos University, February, 2018

Department of Computer Science and Information Technology

1. Staff Induction Program, December, 2016
2. Workshop on "IP Routing", December, 2016
3. Seminar on "How to prepare project and seminar reports?", December, 2016
4. Faculty Induction Program on "Academic Advising", December, 2016
5. Workshop on "Good Shepherd-Leadership Qualities", November, 2016
6. Seminar on "Text Mining and its Applications", November, 2016
7. Industrial Visit - SAS Center for Virtual Reality, November, 2016
8. Orientation Program – Foundation to Academic, October, 2016
9. Seminar on "Master Projects and Funding Agencies", October, 2016
10. Faculty Induction Training Program on "M-Tutor", October, 2016
11. Workshop on "Manual Software Testing", April, 2017
12. Seminar on "Computer Security", April, 2017
13. Seminar on "Information Security", December, 2017
14. An Orientation Presentation to the 3rd Level Students in GFP on Academic Registration, December, 2017
15. Workshop on "Network Protocol Analysis using Wire shark", February, 2017
16. Seminar on "Cyber Crime", February, 2017
17. Faculty Induction Program on "Developing Class Room Website", February, 2017
18. Seminar on "Electronic Book & E-Library Resources on Your Pocket", January, 2017

19. Seminar on “Introduction to Ethical Hacking”, July, 2017
20. Workshop on “Information and Communication Technology, March, 2017
21. Industrial Visit - Information Technology Authority – KOM4, March, 2017
22. Industrial Visit – COMEX , March, 2017
23. Workshop on “Personal Strategic Planning”, March, 2017
24. Workshop on “Information and Communication Technology” , March, 2017
25. Seminar on “Augment Reality”, November, 2017
26. Seminar on “Cloud Computing”, November, 2017
27. Seminar on “Python Programming”, November, 2017
28. Faculty Orientation for “Online Registration – Spring 2018”, November, 2017
29. Industrial Visit to Ahli Bank, Head Office, November, 2017
30. Seminar on “Mobile Application Development”, November, 2017
31. Workshop on “Data Visualization”, November, 2017
32. Seminar on “Internet of Things : Concepts and Techniques”, October, 2017
33. Workshop on “Designing free website with CMS (Wordpress)”, April, 2018
34. Seminar on “Big Data”, April, 2018
35. National Level Seminar on “Advanced Trends in Information and Communication Technology (ATICT)”, April, 2018
36. Seminar on “Digital Transformation of web with IOT”, February, 2018
37. Workshop on “AJAX Technology”, March, 2018
38. Seminar on “Research Basics-Benefits and its Uses”, March, 2018
39. Seminar on “Data Centre”, March, 2018
40. Industrial Visit to Ministry of Education – Data Centre, March, 2018
41. National Level Faculty Development Program on “Recent Trends in Internet of Things and its Applications”, March, 2018

Department of English Language

1. Seminar on “Teaching Thinking: Critical Thinking through Concept Mapping in EFL”, December, 2016
2. Seminar on “Designing Integrated SPMS Courses in Undergraduate Classes”, July, 2017
3. Seminar on “Research Methodology for English Language and Literature”, October, 2017
4. Seminar on “American Literature”, December, 2017
5. Seminar on “Omani Stories for International Audience”, March, 2018
6. Seminar on “Relevance of Accredited TEFL Certification in Tertiary Level Teaching”, March, 2018

Implementation of Augmented Reality Based Curriculum

AUGMENTED REALITY - EXECUTIVE SUMMARY

Augmented Reality (AR) is a perfect blend of real world and the imaginary world. It has been argued the benefits of the augmented reality for past decades. In the latest years, there is a growing interest in making use of Augmented Reality (AR) to create a unique academic learning environment, which shows the importance of the AR in the academic learning environment by investigating the effects of learning ability using AR. There are around 50 studies recorded in the past five years in the scientific journal databases. The principal discoveries of these studies emphasize the need of AR in the educational sectors. This proposal discusses the patterns and the vision towards the future teaching-learning methods to increase the sustainable learning ability of challenged interdisciplinary pupils. AR is the potential to enhance fact, with extra digital contents and capability. Mobile AR presents the potential to realize AR beyond wired systems. Mobile AR has proven to improve the understanding of the real environment.

Dr. Saleem Basha, Head of Research Centre has already started the preliminary work to develop AR for the past 15 months. To strengthen the developed Educational AR work, he created two Research Cluster with the members as follows:

Research Cluster 1: Technical Team

1. Dr. Saleem Basha, Head Research Centre
2. Dr. A. Mohamed Abbas, Head, Computer Science and IT
3. Mr. Kareemullah Sheikh, Lecturer, Computer Science and IT

Research Cluster 2: Digital Content Team

1. Dr. Saleem Basha, Head Research Centre
2. Ms. Ruwaida, Lecture, General Foundation Department

Both the Research Clusters are approved by the College Council.

The Research Clusters have implemented the beta version of Educational AR in General Foundation Department, Mazoon College in coordination with Head of General Foundation Department, Mazoon College. The application is available in Library Website. The AR based education has a remarkable impact on the students' learning process. To make an official version of the Educational AR, the Inaugural function for releasing Educational AR will be held at Mazoon College after establishment of Centre of Excellence in Augmented Reality. The necessary steps have been initiated by the Head of Research Centre for the establishment of Centre of Excellence in Augmented Reality. It is the privilege of Mazoon College for implementing the first Educational AR.

The first phase of implementing the prototype is done during summer 2018 to the foundation Course IT2. Around 120 students are in IT2 course. The prototype is distributed to the student as an .apk android setup file through MC Library website. Later, after the implementation it is found that the students have faced many difficulties to install the application in their mobile phoned as “Third Party Software”. Moreover, around 80% of the students are using iphone. It was planned to develop the same application for iphone and decided to upload in Google Play Store and Apple Store. By this we expect the student can get the maximum benefits from this new technology. This AR in education project implementation is the first in Oman and the credit goes to the two Research Clusters and Mazoon College to provide support.

External Collaboration for Augmented Reality Projects

The benefits of AR had been increasingly receiving interest from the researchers and the corporates of Oman. AR was first used in the late Nineties, to train the pilots in the simulated cabins. According to the 2011 Horizon Report, the blend of 3D imaging over a 3D space will introduce a new agenda in the teaching and learning process. Also, they have recommended using AR in the educational sector for an adaptive and efficient learning process. It takes the advantage of the physical target image and the augmented 3D model in the sample space of the handheld device to give the new definition of learning methodology.

To establish the AR base in an educational sector in National Level, the Research Centre, Mazoon College has decided to make a collaborative research project with Ministry of Education (MoE), Information Technology Authority (ITA) and Sultan Qaboos University (SQU) for seeking funds from The Research Council (TRC). The collaboration was made with the above said external partners. The Research Center holds several meetings and discussion and finalizes the research proposals for two different TRC schemes GRSP(Graduate Research Support Project) and ORG(Open Research Grants). Once the TRC opens the schemes the Research Centre will submit the research proposal to TRC.

Research Clusters for Augmented Reality

The development of Augmented Reality application is composed of two different aspects namely Technical aspects which will deals with a Game Engine & AR Framework and Digital Content Development. For the above said two purpose, Head of Research Centre has made two research clusters and it is passed and approved by the College Academic Council. The Head of Research Centre leads the two research cluster.

Research Cluster 1:

Dr. M.S.Saleem Basha, CS&IT
Dr. Mohamed Abbas, CS&IT
Mr. Kareemulla Shaik, CS&IT

Research Cluster 2:

Dr. M.S.Saleem Basha, CS&IT
Ms. Rowaida Abdullah, CS&IT

Publications

Department of Business Administrations and Economics

1. Suhaila M. Abbas, "Attitudes of employees toward women managers in private sector in Oman", Public Administration Institution, Oman, Vol. , pp, ISSN:
2. Suhaila M. Abbas, "Historical Development of Electronic Trade / Indicators and strategies", Consumer Protection Conference in Oman, Vol. , pp, ISSN:
3. Esam Al lawati, "Omani Adults Crying: Causes and motivations: A Mathematical Analysis, Journal Of Humanities And Social Science", 2016
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7. Esam Al lawati, "Self-Esteem among Psychology Students in Mazoon College in Sultanate of Oman", 2017
8. Soofi Qudsia Nazneen, "Economic Diversification in Sultanate of Oman amidst Oil crises", IOSR Journal of Business and Management, Vol. 19(6), pp. 9-12, ISSN: 2319-7668., 2017
9. Sheeba Khan, "Impact of Teamwork on Employees Performance", International Journal of Education and Social Science Vol. 4(11), pp. 15-22, ISSN: 2410-5171, 2017
10. Jamal Dawood Salman, "Role of Knowledge Economics as a driving force in Global World", American International Journal of Research in Humanities and social science (IASIR), Vol. 18(21), pp. 6, ISSN- 2328-3734, 2018
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12. Jamal Dawood Salman, "Essentials of Economics. Allied Publishers Pvt. Ltd. New Delhi. India, Book, ISBN: 978-93-87380-8, 2018
13. Jamal Dawood Salman, Energy Security Strategy and Oil Prices in GCC, Book, ISBN: 978-99969-2-144-5, 2018

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2. Mohamed Abbas, "A Survey on Hybrid Route Diversification and Node Deployment in Wireless Sensor Networks", National Conference on Information Systems Trends, University of Nizwa, Oman, 2016
3. Daiyan, "Sentiment Classification Using Supervised Method", International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 6(1), pp. 45-49, 2016
4. M.S.SaleemBasha, "A Survey on Hybrid Route Diversification and Node Deployment in Wireless Sensor Networks", National Conference on Information Systems Trends, University of Nizwa, Oman, 2016
5. M.S.SaleemBasha, "Processing Uncertain Preferences Using Probabilistic Skyline", International Journal of Information Processing system, Vol xx(xx), pp xxx-xxx. (Accepted), 2016
6. M.S.SaleemBasha, "Omani Adult Crying: Causes and Motivations, Journal Of Humanities And Social Science", 2016
7. M.S.SaleemBasha, "PDMS: An Effective Preference Coupled Data Management & Retrieval System", Journal of Engineering Science and Technology, Vol xx(xx), pp xxx-xxx, School of Engineering, Taylor's University (Accepted), 2016
8. M.S.SaleemBasha, "A Comprehensive Analysis on Multi Agent Decision Making Systems", Indian journal of Science and technology, Vol. 9(11) pp.236-250, , ISSN 1546-9658,, 2016
9. M.S.SaleemBasha, "A novel algorithm for reducing energy-consumption in cloud computing environment: Web service computing approach", Journal of King Saud University - Computer and Information Sciences, vol 28(1), pp. 55-67, ISSN 6594-5846, 2016
10. M.S.SaleemBasha, "A Frame Work for Learning Drug Designing Through Molecular Modelling Software Techniques and Biological Databases for Protein-Ligand Interactions", International Journal of Engineering Research in Africa, Scientific Net Trans Tech Publications Inc, Vol.27(1), pp. 111-118, ISSN. 8459-3164, 2016
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29. Varghese Kuncheria, "When Love is Bitter: Poets Unite Worldwide", link: <https://www.amazon.com/Fabrizio-Frosini/e/B014HA8ZUA/>, 2017
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31. Sharmila Bhattacharjee, "Poem 'The Bleeding Dove'", International Journal on Multicultural Literature, Vol. 8(1) , pp 144, ISSN:2231-6248, 2018, 2018
32. Sharmila Bhattacharjee, "Eliot's After Strange Gods: Contrapuntal Reading in Religion and Culture", Objective Illumination! A Study of T. S. Eliot's Prose Writings' by Alfa Publishing , Vol. , pp 167-175, ISSN: 978-93-83292-38-7, 2018, 2018

Student Achievements

Mr. Ahmed Salim Al Mayayhi, “Smart E-Preparation for Teachers of Moussa Ben Ali for Basic Education in Sultanate of Oman”, International Journal of Advanced Research, Vol. 4(1), pp. 21- 27, 2016

Ms. Nishatbanu Nayakwadi, “Face Recognition System Using Local Ternary Pattern and Signed Number Multiplication”, International Journal of Engineering Science Invention, Vol. 5(1), pp 44-50, 2016

Mr. Hamed Nasser Al-Busaidi, “ICS: An Optimized IDS Mechanism for DDoS Attacks Mitigation”, American Journal of Engineering Research (AJER), Vol. 5(10), pp-175-180, 2016

Ms. Nashwa khair, “An Associative Classification Approach Using Data Mining for Predicting Phishy Email”, IOSR Journal of Computer Engineering (IOSR-JCE), Vol. 20(2), pp. 59-63, 2018

Ms. Khalsa AL Rhumhi

The M.Tech Student Ms. Khalsa Humaid Abdullah Al Rumhi under the supervision of Dr. M.S.Saleem Basha, developed an algorithm and tested in prototype for solving the Load Balancing between LIFI and WIFI with hybrid version of Cell Breathing (Load Distribution) and MinMax theorem (for decision taking) approach. The way she explained her findings was deserving of applause. Her findings have been published in many newspapers in the gulf region. (namely, Al Shabeeba, Oman News, Al Barzha, The 7th Day, Sublet Oman, Al Academia, Gulf Eyes etc.)

Mr. Talib Ali

The M.tech Student Mr. Talib Ali Al saidi under the supervision of Dr. M.S.Saleem Basha, developed an adaptive and full response online system for Transportation booking and Management system for the Ministry of Education in the Al Batinah North region. His application was appreciated and many requests for its use were received.

Mr. Nizar Al Jabri and Mr. Yousuf Al Qasmi

Mr. Nizar Ali Al Jabri and Mr. Yousuf Salim Al Qasmi have created the new software for “Calculating CGPA (Student Version)” with the support from Research Centre, Mazoon College. The software is very helpful to the students to calculate / predict the CGPA. Which helps to plan their work plan to concentrate on the academic schedules to secure more grades to get rid of probation notices. This software also help the advisors to advise the students. The copy of software is available in Students Affairs Department for the benefit of the students, and requested to use the application.

Ms. Zainab Fathima Ali and Ms. Fahmida Haque

The CS & IT Students, Ms. Zainab Fathima Ali and Ms. Fahmida Haque were participated in INVENT'17 – Technofest Event organized by the Faculty of Information Technology, Majan College on 20th March 2017. They won the FIRST PRIZE TROPHY in WEB DESIGN and also participated in Build a PC and Poster Design.

BOOK PUBLICATION**Mr. Salim Issa Al Balushi**

The M.Tech Student Mr. Salim Issa Al Balushi under the supervision of Dr. M.S.Saleem Basha, have published a book titled "Developing Queue-Less System and Integration with Web Services" in LAP Lambert Academic Publishing, Germany. ISBN-10: 9786139841103 ISBN-13: 978-6139841103

Next Two Year Plan

1. One workshop per department per semester
2. One seminar per department per semester
3. One national event or two workshop or seminar per department per semester
4. Research cluster formation
5. Establishment of Centre of Excellence
6. Initiate Training programme in Unity3d, ProBuilder and AR based Application.
7. Obtain atleast one TRC research grants
8. Satisfy the Quality criteria.