

Dr. Mohammad Abu Kausar

Associate Professor, College Academic Advising Officer

Department of Information Systems..

كلية الاقتصاد والادارة ونظم المعلومات

جامعة نزوى، سلطنة عمان

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البريد الإلكتروني: kausar@unizwa.edu.om

موقع المكتب: H-20-11..

يعمل في الجامعة: منذ 2016

الحالة الاجتماعية: Married..

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المؤهلات الأكاديمية

Ph.D، Jaipur National University، 2016

Master of Computer Science، G. B. Pant University of Agriculture & Technology, Pantnagar, India، 2006

MBA (IT)، Symbiosis, Pune, India

أنشطة التدريس

DATABASE MANAGEMENT SYSTEMS، This course describes the advantages and the significance of Database Management System. Topics include Introduction to file processing and Database Management Systems (DBMSs), Relational Databases, Normalization, SQL, Entity-Relationship model, theory of Database Design, Physical Database Design, DBMS Technologies, the Client/Server Database Environment and the Internet Database Environment.

WEB DESIGN AND DEVELOPMENT، This course focuses on one of the most important advanced areas of Web development: This course covers techniques and tools for design and development of web pages using ASP.NET, C# and Database which allow developers to Develop Dynamic website using multi-tier architecture.

DATABASE AND DYNAMIC WEB DESIGN، This course focuses on one of the most important advanced areas of Web development with Database: This course covers techniques and tools for

design and development of dynamic web pages using ASP.NET, C#, ADO.NET, AJAX, JQuery etc. AJAX is used for partial post back of web pages which makes web application more interactive. This course allows users to Develop Dynamic web applications using multi-tier architecture with .Database

GRADUATION PROJECT، The students of Information Systems major must choose this Final Year Project and it is course to be completed in one semester and it must demonstrate individual student`s academic knowledge and abilities learnt during their undergraduate courses. They will work on a self-defined project supervised by a faculty member. The students will be trained in software development process to perform at the beginning of their professional career. They will involve in developing computer problems solutions, analysis, and synthesis. Also, students will improve their communication skills through the presentations and preparing final documentation .report on their realized work

INTERNET TECHNOLOGY، The course focuses on the general structure of the Internet and the different component that constitute its building blocks. It also covers the most important Internet Service, which provides the underlying structure of today's Web site and Client-side scripting .language that enables Website developers to greatly enhance the end user's experience

FUNDAMENTALS OF INFORMATION SYSTEM، This course introduces the fundamental concepts of Information Systems which covers system components and relationships, cost/value and quality of information, application systems versus system software, database features, functions, and architecture, system development life cycle, characteristics of IS career paths, information .security, crimes and ethics

WEP APPLICATIONS، This course is framed to bestow students' knowledge to program using the web programming language PHP as a server side language. It goes over the syntax and usage of the language. It focuses on the general structure of the Internet and different components that constitutes to building blocks using PHP language. It also covers the most important Internet Services. Besides that, it covers the dynamic web applications and how to use HTML forms inside the PHP code, how to use SQL and connecting the database using PHP language. This course will enhance their knowledge in the website development and enhance their experience in designing .dynamic websites

E-Commerce، This course is about conducting commerce online or via electronic means. The course explores different definitions and meanings of E-Commerce and related terminology, the foundations on which E-Commerce and E-Business are built, and examine businesses that have built on the technology foundation. The course also explores the impact of E-Commerce on economics and management thinking and introduces different security and political and legal .issues related to E-Commerce and E-Business

Special Problems، The students learn by readings and discussions on materials relevant to the Information Systems and must prepare a final report. This course emphasizes on important current issues in IS. However, the primary purpose of this course is to develop each student's ability to think scientifically and to clearly present those thoughts. The students will be required to develop their own research report which must contain the title, proposed work to be done, .execution of the work, presenting the results and findings in the form of well written report

Problem Solving and Programming، This course introduces the students to think creatively in solving Problems using Programming. This course focuses on providing fundamental knowledge in Problem solving and Programming principles. The topics include Program structure, Language syntax, Control structures and Statements, Scope of Variables, Data types, Operators, Expressions, Arrays, Functions and Storage classes. The mathematical and scientific problems will .be solved using programming practices

Software Project Management، The course Project Management provides IS specialists with tools and skills necessary to manage projects with associated resources. This course will focus on Information Systems (IS) projects. These are among the most popular types of projects in

organizations because IS an integral part of almost every business process. The objectives of this course are to understand fundamental concepts of Project Management, to explore Project .Management techniques and to learn from real-world Project Management case studies

Object Oriented Programming، This course introduces computer programming using the C++ programming language with Object-oriented programming principles. It mainly focuses on the development of Object – Oriented Programming Concepts for the intermediate programming skills. This also supports the development of C++ skills by giving the concept and practice of C++ .++Applications using Microsoft Visual C

الأنشطة البحثية

الاهتمامات البحثية ـ

Big Data

Database

Web Technology

Sentiment Analysis

Machine Learning

Artificial Intelligence

العرض في المؤتمرات ـ

Web accessibility challenges in Delhi NCR region university websites: An in-depth analysis using machine learning، 1st International Conference on Artificial Intelligence and Information Technologies، Uzbekistan، 03/11/2023

Implementation of Crawler on .NET Technology، National Conference on Emerging Trends in Engineering & Sciences، Gurukul Kangri University, Haridwar, Uttarakhand, India، 09/11/2013

Maintaining The Repository of Search Engine Freshness Using Mobile Crawler، IEEE International Conference on Microelectronics, Communication and Renewable Energy، Amal Jyothi College of Engineering, Kanjirappally, Kerela, India، 04/06/2013

Parallel Web Crawler based on Mobile Agent، 2nd National Conference on Recent Advances in Technology and Engineering، Mangalayatan University, Aligarh, India، 15/03/2013

Parallel Mobile Crawler Implementation Using Aglets، International Conference on Emerging Trends and Developments in Science, Management and Technology، Raj Kumar Goel Institute Of Technology, Ghaziabad, UP, India، 11/03/2013

Software Testing Effort Allocation Using Genetic Algorithm، National Conference on Progress in Electronics & Allied Sciences، Gurukul Kangri University, Haridwar, Uttarakhand, India، 03/11/2012

حضور المؤتمرات ـ

week online FDP (3-week equivalent- 128 hours of active engagement) on Courseware creation-8 using Moodle for Outcome based Education، Integral University, Lucknow، 05/01/2020

Oracle Academy Faculty Day، Higher College of Technology, Al-Khuwair, Sultanate of Oman، 21/11/2019

Conference on Economics, Business and Information System Trends، University of Nizwa, Nizwa, Sultanate of Oman، 17/04/2019

Current Research Trends in CLOUD COMPUTING & BIG DATA، Jaipur National University, Jaipur, Rajasthan, India، 06/02/2015

National Conference on Emerging Trends in Engineering & Sciences، Gurukul Kangri University, Haridwar, Uttarakhand, India، 09/11/2013

Microsoft Conference on Application testing using Visual Studio organized، Delhi، 04/09/2013

Microsoft Dev Camp on Windows 8 Platform, .NET، Delhi، 29/08/2013

IEEE International Conference on Microelectronics, Communication and Renewable Energy، Amal Jyothi College of Engineering, Kanjirappally, Kerala, India.، 04/06/2013

Virtual TechDays Conference on Web Application Development/.net framework, Cloud Computing, Windows Azure، Delhi، 22/03/2013

National Conference on 2nd National Conference on Recent Advances in Technology and Engineering، Mangalayatan University, Aligarh, India، 15/03/2013

International Conference on Emerging Trends and Developments in Science, Management and Technology، Raj Kumar Goel Institute Of Technology, Ghaziabad, UP, India، 11/03/2013

National Conference on E-WASTE SUSTAINABILITY: NEEDS AND SOLUTIONS FOR ITS MANAGEMENT، University of Delhi, New Delhi, India، 07/03/2013

National Conference on Progress in Electronics & Allied Sciences، Gurukul Kangri University, Haridwar, Uttarakhand, India، 03/11/2012

one week workshop on scientific computing: Theory and practices، Gurukul Kangri University, Haridwar, Uttarakhand, India، 08/10/2012

two days Virtual TechDays on Web Application Development/.net framework، Delhi، 18/02/2009

المنشورات ـ

مقال:

1. Explainable AI for mango leaf disease detection bridging the gap between model accuracy and farmers usability 2025
2. Digital Twin-Enabled Anomaly Detection for Industrial IoT using Explainable AI 2025
3. Intelligent Software Testing Framework: Integrating Genetic Algorithms with Reliability Growth Models 2025
4. Intelligent Web Crawlers with Federated Learning for Search Engine Freshness 2025
5. ACCESSIBILITY GAPS IN OMANI HOSPITAL WEBSITES: A WCAG 2.1 COMPLIANCE STUDY، MOHAMMAD ABU KAUSAR 2025
6. Web accessibility challenges in Delhi NCR region university websites: An in-depth analysis using machine learning 2024
7. Sentiment classification based on machine learning approaches in flipkart product reviews 2024
8. Koha System Performance Tuning: A Case Study 2024
9. Website Assessment and Feature Metrics of University`s Website Accessibility: An Evaluation of 15 Top-Ranked Universities of India، Mohammad Abu Kausar 2023
10. Sentiment Classification based on Machine Learning Approaches in Amazon Product Reviews، Mohammad Abu Kausar, Sallam Osman Fageer, Arockiasamy Soosaimanickam 2023
11. MBA: Market Basket Analysis Using Frequent Pattern Mining Techniques 2023

12. 2022 A Study of Performance and Comparison of NoSQL Databases: MongoDB, Cassandra, and Redis Using YCSB

13. 2022 Lie Detection Technique using Video from the Ratio of Change in the Appearance

14. 2022 Career Counseling Model for Omani High School Students using Fuzzy Logic

15. 2021 Public sentiment analysis on Twitter Data during COVID-19 Outbreak

16. 2020 SQL Versus NoSQL Databases to Assess their Appropriateness for Big Data Application

17. 2019 SQL Injection Detection and Prevention Techniques in ASP.NET Web Application

18. 2019 Suitability Of Influxdb Database For IoT Applications

19. 2018 An Effective Technique for Detection and Prevention of SQLIA by utilizing CHECKSUM Based String Matching

20. 2018 BigData Analytics Techniques to Obtain Valuable Knowledge

21. 2015 Md. Abu Kausar, V. S. Dhaka and Sanjeev Kumar Singh "A novel web page change detection approach using Sql Server", International Journal of Modern Education and Computer Science (IJMECS), Hong Kong, Volume 7, Issue 9, pp. 36-43, September 2015

22. 2015 Design of Web Crawler for the Client-Server Technology

23. 2014 Md. Abu Kausar, V. S. Dhaka and Sanjeev Kumar Singh "Implementation of Parallel Web Crawler through .NET technology", International Journal of Modern Education and Computer Science (IJMECS), Hong Kong, Volume 6, Issue 8, pp. 59-65, August 2014

24. 2013 Md. Abu Kausar, V S Dhaka and Sanjeev Kumar Singh. "Web Crawler: A Review." International Journal of Computer Applications 63(2):31-36, February 2013. Published by Foundation of Computer Science, New York, USA

25. 2013 Md. Abu Kausar, Md. Nasar and Sanjeev Kumar Singh "Information Retrieval using Soft Computing: An Overview", International Journal of Scientific and Engineering Research (IJSER), Houston, USA, Volume 4, Issue 4, pp. 388-395, April 2013

26. 2013 Md. Abu Kausar, Md. Nasar and Sanjeev Kumar Singh "Application of Soft Computing In Information Retrieval - A Review of Literature", International Journal of Computer Science Research and Application (IJCSRA), USA, Volume 3, Issue 3, pp. 10-17, September 2013

27. 2013 Md. Abu Kausar, Md. Nasar and Sanjeev Kumar Singh "Maintaining The Repository of Search Engine Freshness Using Mobile Crawler", IEEE International Conference on Microelectronics, Communication & Renewablw Energy (AICERA/ICMiCR), Kanjirappally, India, IEEE Explore

28. 2013 Md. Abu Kausar, V. S. Dhaka and Sanjeev Kumar Singh "Web Crawler based on Mobile Agent and Java Aglets", International Journal of Information Technology and Computer Science (IJITCS), Hong Kong, vol. 5, no.10, pp.85-91, September 2013

29. 2013 Md. Abu Kausar, Md. Nasar and Sanjeev Kumar Singh "A Detailed Study on Information Retrieval using Genetic Algorithm", Journal of Industrial and Intelligent Information (JIII), SAN JOSE, CA, USA, Volume 1, Issue 3, pp. 122-127, September 2013

کتاب:

1. 2014 INTRODUCTION TO ASP.NET، Mohammad Abu Kausar

قسم کتاب:

1. 2026 Collaborative Health Intelligence: Federated Learning as the Foundation of Future Medical Care

2. 2023 Blockchain technology: Emerging trends and applications، Kausar, M.A. ,

.Soosaimanickam, A

مؤتمر أو ورشة:

1. 2025 Detection and Prevention of Cell Congestion in LTE Networks using Machine Learning Techniques

الخبرة الإدارية

2024 – الآن: College Examination Officer - College of Economics, Management and Information Systems

2021 – الآن: College Media Officer

2021 – الآن: College Web Coordinator

2021 – الآن: College Academic Advising Officer

2019 – الآن: Program Coordinator - Department of Information Systems

خدمة المجتمع

Reviewer/Editorial of several academic journals

الأنشطة الاستشارية

Academic Advisor، College of Economics, Management & Information Systems، University of nizwa, Nizwa، 2016

Internal Supervisor، Master Program, CEMIS، University of Nizwa, Nizwa، 2017

العضوية في الهيئات المهنية

2014–الآن: International Association of Computer Science and Information Technology (IACSIT), Singapore

2014–الآن: Member of Computer Society of India (CSI), India

2013–الآن: (International Association of Engineers and Scientists (IAEST

2013–الآن: Computer Science Teachers Association (CSTA), U.S.A

2013–الآن: International Association of Engineers (IAENG), Hong Kong

2013–الآن: Science and Engineering Institute (SCIEI), U.S.A

الجوائز والتقدير

Honored as a recipient of the prestigious **Best Academician Award** presented by the 360 2025

Research Foundation, India

Awarded by the University of Nizwa administration for my efforts and contributions in the 2024 field of **Academic and Educational Excellence** during the AY 2023-2024, at the Chancellor`s Annual Meeting.

Promoted as Associate Professor 2024

Best Young Researcher 2018

Awarded UGC Senior Research Fellowship (SRF) during Ph.D. Programme 2011.

Microsoft certified Professional (MCP) and Microsoft certified Technology Specialist (MCTS) in 2008 .Net Framework 2.0 Web Application

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المرجع: https://www.unizwa.edu.om/staff/cemis/kausar