

Dr. Mohamed Kharbeche

Date and Place of Birth: 11/29/1980 at Tunis

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Google Scholar: https://scholar.google.com/citations?user=t_9LjKAAAAJ&hl=fr&oi=sra



EDUCATION

- **January 2011-September 2014:** Post-Doctoral Fellow at Qatar University: Mechanical and Industrial Engineering department.
- **April 2011:** Ph.D. in Management Science (Sp. Operations Research), Higher Institute of Management (ISG), University of Tunis.
Thesis title: Exact and Heuristic Methods for Generalized Permutation Flow Shop Problems.
Supervisor: Prof. Mohamed Haouari.
- **July 2006:** M. Sc. in Quantitative Techniques (sp. Operations Research), Higher Institute of Management (ISG), University of Tunis.
- **July 2004:** B. Sc. Economics (sp. Financial and Banking Economics), High School of Economic and Commercial Sciences (ESSEC), University of Tunis.
- **June 1999 :** Baccalaureate in Mathematics, Technical School of Menzel Temime, Tunisia.

ACADEMIC EXPERIENCE

- **Since October 2014:** Research Associate, Qatar Transportation and Traffic Safety Center, at Qatar University.
- **2011-2014:** PostDoctoral Fellow, at Qatar University, Qatar.
- **2009-2010:** Lecturer and research engineer at Université de Technologie de Compiègne (UTC), France.
- **2006-2009:** Lecturer at High School of Economic and Commercial Sciences (ESSEC), Tunisia.

RESEARCH INTERESTS:

Design and analysis of exact and approximate solution procedures for combinatorial optimization problems, with applications in: Machine scheduling, Robotic cell scheduling, Aircraft scheduling, Retail operations management, Traffic Safety, Logistics and Transportation, Supply Chain Management.

KEYWORDS:

Operations Research, Combinatorial Optimization, Engineering Management, Optimization in Transportation Problems, Supply Chain Management, Traffic Safety, Logistics and Transportations.

CERTIFICATE MITX

Manufacturing Systems I, from MITx October 2018.

Management in Engineering I, from MITx November 2018.

Supply Chain I, from MITx January 2019.

Manufacturing Process Control II, from MITx January 2019.

Supply Chains for Manufacturing II, from MITx April 2019.

Manufacturing Process Control I, from MITx May 2019.

Management in Engineering II, from MITx May 2019.

TAUGHT COURSES:

- **2018 – 2019**

Engineering Economics CENG360

- **2017 – 2018**

Probability and Statistics for Engineers CENG200

- **2016 – 2017**

Engineering Economics CENG360

- **2009 - 2010**

Algorithms and Data Structures

- **2008 - 2009**

IT and Internet Certificate I and II via the Virtual University of Tunisia

- **2007 - 2008**

Data Base

IT and Internet Certificate II

- **2006 - 2007**

Office Automation Software

Assembly Language

ABILITY TO TEACH:

- Operations Research, Advanced Operations Research, Decision Analysis, Supply Chain and Logistics, Inventory, Facility Planning and Layout, Engineering Management.
- Special Topics : Optimization Software

PUBLICATIONS

BOOK CHAPTER:

[1] Al-Salem, M., Haouari, M., **Kharbeche, M.**, & Khallouli, W. (2016). A free-slack-based genetic algorithm for the robotic cell problem with controllable processing times. In Heuristics, Metaheuristics and Approximate Methods in Planning and Scheduling (pp. 77-93). Springer.

INTERNATIONAL REFEREED JOURNALS:

- [1] Muley, D., **Kharbeche, M.**, Alhajyaseen, W. & Al-Salem, M. (2019). Empirical Study on Pedestrian Signal Design and Compliance in the State of Qatar. *International Journal of Civil Engineering* (accepted).
- [2] Downey, L. T., Saleh, W., Muley, D., & **Kharbeche, M.** (2019). Pedestrian crashes at priority-controlled junctions, roundabouts, and signalized junctions: the UK case study. *Traffic injury prevention*, 1-6.
- [3] Arbabzadeh, N., Jafari, M., Jalayer, M., Jiang, S., & **Kharbeche, M.** (2019). A hybrid approach for identifying factors affecting driver reaction time using naturalistic driving data. *Transportation Research Part C: Emerging Technologies*, 100, 107-124.
- [4] Al-Salem, M., & **Kharbeche, M.** (2017). Throughput optimization for the Robotic Cell Problem with Controllable Processing Times. *RAIRO-Operations Research*, 51(3), 805-818.
- [5] Maddah, B., **Kharbeche, M.**, Pokharel, S., & Ghoniem, A. (2016). Joint replenishment model for multiple products with substitution. *Applied Mathematical Modelling*, 40(17-18), 7678-7688.
- [6] Mrad, M., Gharbi, A., Haouari, M., & **Kharbeche, M.** (2016). An optimization-based heuristic for the machine reassignment problem. *Annals of Operations Research*, 242(1), 115-132.
- [7] Hancerliogullari, G., Rabadi, G., Al-Salem, A. H., & **Kharbeche, M.** (2013). Greedy algorithms and metaheuristics for a multiple runway combined arrival-departure aircraft sequencing problem. *Journal of Air Transport Management*, 32, 39-48.
- [8] Haouari, M., & **Kharbeche, M.** (2013). An assignment-based lower bound for a class of two-machine flow shop problems. *Computers & Operations Research*, 40(7), 1693-1699.
- [9] **Kharbeche, M.**, & Haouari, M. (2013). MIP models for minimizing total tardiness in a two-machine flow shop. *Journal of the Operational Research Society*, 64(5), 690-707.
- [10] **Kharbeche, M.**, Carlier, J., Haouari, M., & Moukrim, A. (2011). Exact methods for the robotic cell problem. *Flexible services and manufacturing journal*, 23(2), 242-261.
- [11] Gharbi, A., Azaiez, M. N., & **Kharbeche, M.** (2010). Minimizing Expected Attacking Cost in Networks. *Electronic Notes in Discrete Mathematics*, 36, 947-954.
- [12] **Kharbeche, M.**, Carlier, J., Haouari, M., & Moukrim, A. (2010). Exact method for robotic cell problem. *Electronic Notes in Discrete Mathematics* 36, 859–866.
- [13] Carlier, J., Haouari, M., **Kharbeche, M.**, & Moukrim, A. (2010). An optimization-based heuristic for the robotic cell problem. *European Journal of Operational Research*, 202(3), 636-645.

CONFERENCE PROCEEDINGS:

- [1] Muley, D., Ghanim, M., & **Kharbeche, M.** (2018). Prediction of Traffic Conflicts at Signalized Intersections using SSAM. *Procedia computer science*, 130, 255-262.
- [2] Muley, D., Alhajyaseen, W., **Kharbeche, M.**, & Al-Salem, M. (2018). Pedestrians' Speed Analysis at Signalized Crosswalks. *Procedia computer science*, 130, 567-574.
- [3] Jabbar, R., Al-Khalifa, K., **Kharbeche, M.**, Alhajyaseen, W., Jafari, M., & Jiang, S. (2018). Real-time Driver Drowsiness Detection for Android Application Using Deep Neural Networks Techniques. *Procedia Computer Science*, 130, 400-407.
- [4] Jabbar, R., Al-Khalifa, K., **Kharbeche, M.**, Alhajyaseen, W., Jafari, M., & Jiang, S. (2018, March). Applied Internet of Things IoT: Car monitoring system for Modeling of Road Safety and Traffic System in the State of Qatar. In *Qatar Foundation Annual Research Conference Proceedings (Vol. 2018, No. 3, p. ICTPP1072)*. Qatar: HBKU Press.
- [5] Muley, D., **Kharbeche, M.**, Alhajyaseen, W., & Al-Salem, M. (2017). Pedestrians' Crossing Behavior at Marked Crosswalks on Channelized Right-Turn Lanes at Intersections. *Procedia computer science*, 109, 233-240.
- [6] Muley, D., Alhajyaseen, W., & **Kharbeche, M.** (2017). An overview of pedestrian signal setting and implementation in the State of Qatar. *Procedia Computer Science*, 109, 545-552.
- [7] Al-Salem, M., **Kharbeche, M.**, Khallouli, W. and Haouari, M. (2015). Solving the robotic cell problem with controllable processing times. *IEEE International Conference on Industrial Engineering and Engineering Management*, Singapore.
- [8] **Kharbeche, M.**, Ata Abou Nada, S., Nasser MN Al-Khalifa, K., & S. Hamouda, A. (2015). Safety performance of school buses in the State of Qatar. *Journal of Local and Global Health Science*, (2), 46.
- [9] G. Hancerliogullari, G. Rabadi, **Kharbeche, M.**, A. Al-Salem (2012), Heuristic algorithms for aircraft sequencing problem. *Annual International Conference of the American Society for Engineering Management, ASEM 2012 - Agile Management: Embracing Change and Uncertainty in Engineering Management*, Virginia Beach, Virginia, USA , pp. 773–779.
- [10] A. Al-Salem, F. Farhadi, **Kharbeche, M.**, A. Ghoniem (2012), Multiple-runway aircraft sequencing problems using mixed-integer programming, *The Industrial and Systems Engineering Research Conference* , Orlando, Florida.
- [11] G. Rabadi, G. Hancerliogullari, **Kharbeche, M.**, A. Al-Salem (2012), Meta-heuristics for Aircraft Arrival and Departure Scheduling on Multiple Runways, *The Industrial and Systems Engineering Research Conference* , Orlando, Florida.

[12] A. Al-Salem , **Kharbeche, M.**, S. Al-Haidous, F. Aansari, A. Ahmade, M. Daneshvar (2012), Linear ordering formulations for the arrival-departure aircraft scheduling problem, 13th International Conference on Project Management and Scheduling, Leuven, Belgium, 77–81.

[13] **Kharbeche, M.**, Carlier, J., Haouari, M., Moukrim, A.(2010), Exact method for robotic cell problem. International Symposium on Combinatorial Optimization (ISCO), Hammamet, Tunisie.

[14] A. Gharbi, M.N. Azeiz, **Kharbeche, M.** (2010), Minimizing expected attacking cost in networks. International Symposium on Combinatorial Optimization (ISCO), Hammamet, Tunisie.

[15] Carlier, J., Haouari, M., **Kharbeche, M.**, Moukrim, A.(2010), Méthodes exacte et approchée pour le problème de flow shop avec robot, 11^{ème} congrès de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF), Toulouse, France.

[16] Carlier, J., Haouari, M., **Kharbeche, M.**, Moukrim, A.(2008), Solving a permutation flow shop problem with blocking and transportation delays, 11th International Conference on Project Management and Scheduling, Istanbul, Turkey, 39–42.

PRESENTATIONS:

[1] **Kharbeche, M.** (2018), Edinburgh Napier University, A Deep Learning Solution for Driver Drowsiness Detection (July 4, 2018).

[2] **Kharbeche, M.** (2018), 9th International Conference on Ambient Systems, Networks and Technologies (ANT-2018), Pedestrians' Speed Analysis at Signalized Crosswalks (May 8, 2018)

[3] **Kharbeche, M.** (2018), 9th International Conference on Ambient Systems, Networks and Technologies (ANT-2018), Prediction of Traffic Conflicts at Signalized Intersections using SSAM (May 8, 2018)

[4] **Kharbeche, M.** (2018), 9th International Conference on Ambient Systems, Networks and Technologies (ANT-2018), Real-time Driver Drowsiness Detection for Android Application Using Deep Neural Networks Techniques (May 8, 2018)

[5] **Kharbeche, M.** (2017), 8th International Conference on Ambient Systems, Networks and Technologies (ANT-2017), An overview of pedestrian signal setting and implementation in the State of Qatar, Madeira, Portugal. (May 16, 2017).

[6] **Kharbeche, M.** (2017), 8th International Conference on Ambient Systems, Networks and Technologies (ANT-2017), Pedestrians' Crossing Behavior at Marked Crosswalks on Channelized Right-Turn Lanes at Intersections, Madeira, Portugal. (May 16, 2017).

[7] **Kharbeche, M.** (2017), Al-Khalifa, Qatar University Annual Research Forum, A Holistic Approach to Traffic Safety Systems in the State of Qatar, QU, Qatar. (May 3, 2017).

[8] **Kharbeche, M.** (2017), Qatar University Annual Research Forum, Pedestrians' Crossing Behavior at Marked Crosswalks on Channelized Right-Turn Lanes at Intersections, QU, Qatar. (May 3, 2017).

[9] **Kharbeche, M.** (2017), Research Outcome Seminar (ROS) & Roundtable on Road Safety, Modeling and Simulation of Road Safety and Traffic System in the State of Qatar, QNRF, Doha, Qatar. (April 23, 2017).

[10] **Kharbeche, M.**, Al-Khalifa, K. (2016), Unveiling the latest research on road safety from the Qatar Transportation and Traffic Safety Centre, Qatar Transport Safety Forum, October 18, 2016, Doha, Qatar.

[11] **Kharbeche, M.**, Al-Khalifa, K. (2016), Improving the capacity and quality of post-crash research in Qatar, World Day of Remembrance for Road Traffic Victims “Vital post-crash actions: Medical Care, Investigation, Justice”, November 20, 2016, Doha, Qatar.

[12] **Kharbeche, M.** (2016), Road Safety in the State of Qatar, Practices on Technologies, Systems and Culture related to Traffic Safety in Japan and Qatar, IATSS, September 22, 2016, Doha, Qatar.

[13] **Kharbeche, M.**, Safety performance of school buses in the State of Qatar (November 2015), 24th World International Traffic Medicine Association (ITMA), Qatar.

[14] **Kharbeche, M.**, Future delivery of road safety / research - Qatar perspective (October 2015), National Workshop On Effective Actions On Accident Prevention to Mitigate Number of Qatar Road Accidents.

[15] **Kharbeche, M.**, A. Al-Salem, A. Ghoniem, H. Sherali (2013), A Robust Genetic Algorithm for Aircraft Sequencing Over Multiple Runways. INFORMS Annual Meeting, Minneapolis, USA.

[16] **Kharbeche, M.**, Pokharel, S., A. Ghoniem, B. Maddah (2013), Product line pricing analysis in the retail industry context. INFORMS Annual Meeting, Minneapolis, USA.

[17] **Kharbeche, M.**, Haouari, M. (2013), Heuristics for the robotic cell problem with controllable processing times. XXVI EURO – INFORMS, 26th European Conference on Operational Research, Rome, Italy.

[18] S. Azam, **Kharbeche, M.**, A. Al-nabet, S. Althalathini, A. Al-Salem (2013), Exact method for the flight track/level scheduling problem XXVI EURO – INFORMS, 26th European Conference on Operational Research, Rome, Italy.

[19] **Kharbeche, M.**, N. A. Al-Thani, A. Al-Salem, F. A. Ansari, A. M. Hamouda, S. Al-Haidous (2012), Mathematical model for airline flight re-scheduling problem under disruptions. INFORMS Annual Meeting, Phoenix, Arizona.

[20] **Kharbeche, M.**, A. Ghoniem, H. Sherali, A. Al-Salem (2012), Aircraft rescheduling under operation disruptions. INFORMS Annual Meeting, Phoenix, Arizona.

[21] G. Rabadi, A. Ghoniem, A. Al-Salem, **Kharbeche, M.**, G. Hancerliogullari, F. Shahrestanaki (2012), Aircraft scheduling on multiple runways. Qatar Foundation Annual Research Forum Proceedings: Vol. 2012, CSO4, Doha, Qatar.

[22] **Kharbeche, M.**, A. Ghoniem, H. Sherali, A. Al-Salem (2011), Enhanced formulations for aircraft sequencing over multiple runways. INFORMS Annual Meeting, Charlotte, North Carolina.

[23] **Kharbeche, M.** and Haouari, M. (2011), Tight lower bound for a class of two-machine flow shop problems. INFORMS Annual Meeting, Charlotte, North Carolina.

POSTERS:

[1] **Kharbeche, M.**, Al-Khalifa, K., H. Allaf, Tarlochan, F. (2016), In-depth Analysis of Pedestrian Safety in the State of Qatar. Qatar Foundation Annual Research Conference Proceedings: Vol. 2016, SSHAPP3073, Doha, Qatar.

[2] M. K. Msakni, **Kharbeche, M.**, Al-Salem, M., A. Hammuda (2016), Flight Scheduling in the Airspace.

Qatar Foundation Annual Research Conference Proceedings: Vol. 2016, ICTPP3062, Doha, Qatar.

[3] **Kharbeche, M.**, B. Maddah, Pokharel, S., A. Ghoniem (2013), Optimization model for modern retail industry. Qatar Foundation Annual Research Forum Proceedings: Vol. 2013, ICTP 041, Doha, Qatar.

[4] Al-Haidous, S. Y., Al-Salem, M., **Kharbeche, M.**, F. Ansari (2012), Enhanced formulations for the arrival-departure aircraft scheduling problem. Qatar Foundation Annual Research Forum Proceedings: Vol. 2012, CSPA18, Doha, Qatar.

SEMINAR AT UNIVERSITY

[1] Pricing and assortment decisions under cross-selling for retail industry, Qatar University, February 9, 2014, Qatar.

[2] Méthodes exacte et approchée pour le problème de flow shop avec robot, Université de Technologie de Compiègne, February 2, 2010, France.

TECHNICAL REPORTS

[1] Al-Khalifa, K., F. Tarlochan, **Kharbeche, M.**, H. Allaf (2017), Study on Pedestrian Safety Enhancement in Qatar report review, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar, Technical Report (ISBN: 978-9927-107-24-5).

[2] Al-Khalifa, K., **Kharbeche, M.**, S. Ata Abou Nada, A. S. Hamouda (2017), Safety Performance of School Buses in Qatar report review, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar, Technical Report (ISBN: 978-9927-107-19-1).

[3] Al-Khalifa, K., **Kharbeche, M.** et al. (2017), Doha Expressway report review, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar, Technical Report.

WORK IN PROGRESS

[1] Jiang, S., Jafari, M., Jalayer, M., **Kharbeche, M.**, Al-Khalifa, K. (2019). Safe Route Mapping of Roadways Using Multiple Sourced Data. (Under Review).

[2] **Kharbeche, M.**, Ghoniem, A., Sherali, Al-Salem, M. (2019), An effective genetic algorithm for multiple-runway aircraft sequencing problems. (Under Review).

[3] Rabadi, G., Hancerliogullari, G., **Kharbeche, M.**, Ghoniem, A., Al-Salem, M. (2019), A Mathematical Model and Heuristic Approaches for Runway Rescheduling. (Under Review).

[4] **Kharbeche, M.**, Al-Khalifa, K., M. Kais Msakni, Al-Salem, M., A. M. Hamouda (2019), Scatter Search for the Airspace Track/Level Scheduling Problem (to be submitted to Journal of Air Transport Management).

AFFILIATIONS

- **Since 2016:** Industrial Engineering and Operations Management Society
- **Since 2015:** Transportation Research Board (TRB), United States
- **Since October 2014:** Qatar Transportation and Traffic Safety Center, Qatar University.
- **January 2011-September 2014 :** Department of Mechanical & Industrial Engineering, Qatar University.
- **Since 2011 :** The Institute for Operations Research and the Management Sciences **INFORMS**, **Communities:** OPT Computational Optimization and Software, OPT Global Optimization, Optimization Society, OPT Integer Programming, Behavioral Operations Mgmt, OPT Network Flow Programming, OPT Non Linear Programming, OPT Stochastic Programming, Revenue Management and Pricing, OPT Linear Prog and Comp.
- **Since 2010 :** Recherche Opérationnelle et d'Aide à la Décision **ROADEF**
- **July 2009—December 2010:** Heudiasyc UMR 6599, Université de Technologie de Compiègne, Centre de Recherches de Royallieu, France.
- **Since 2006:** Combinatorial Optimization Research Group (CORG), Unité de Recherche ROI (Recherche Opérationnelle pour l'Industrie), Ecole Polytechnique de Tunisie, La Marsa, Tunisia.

TRAINING

- **October 2015:** SPSS, Continuing Education Office, Qatar University.
- **December 2013:** Project Management, Continuing Education Office, Qatar University.
- **July 2009 :** Research Engineer at Joint research unit Heuristic and Diagnoses Complex Systems Heudiasyc: Université de Technologie de Compiègne (UTC) with Prof. Aziz Moukrim and Jacques Carlier.
- **April 2009 :** Department of Industrial Engineering, College of Engineering at King Saud University in Saudi Arabia with Prof. Anis Gharbi and Mohamed Naceur Azeiz: Solving the network attacks using combinatorial optimization techniques.

- **June 2007:** Joint research unit Heuristic and Diagnoses Complex Systems Heudiasyc: Université de Technologie de Compiègne (UTC) with Prof. Aziz Moukrim and Jacques Carlier: The complexity of the permutation flow shop with single robot.
- **June 2006:** Joint research unit Heuristic and Diagnoses Complex Systems Heudiasyc: Université de Technologie de Compiègne (UTC) with Prof. Aziz Moukrim and Jacques Carlier: The permutation flow shop with blocking and transportation times: scheduling of robot moves.

SENIOR PROJECTS AND UREPSUPERVISED

- **UREP Project 2017-2018:** “Signalized Roundabout: Safety and Operational Performance Case Study in Doha”.
- **UREP Project 2014-2015:** “Safe Transport of Hazardous Materials in Qatar”.
- **UREP Project 2013-2014:** “Airline flight scheduling optimization”.
- **Senior Project Fall 2012-2013:** “Exact Method for Aircraft Scheduling under Disruptions”.
- **Senior Project Fall 2011-2012:** “Exact and Heuristic Methods for Aircraft Scheduling over Multiple Runways”.

RESEARCH FUNDS

- **November 2016,** NPRP: Investigating pedestrian crossing behavior to improve pedestrian accident rates and severities in the State of Qatar. With Prof. Wafa Saleh and Dr. Mohammed AL-Salem. (Budget \$540.000)-(May 2016 - July 2018).
- **November 2016,** NPRP: Modeling and simulation of road safety and traffic system in the State of Qatar. With Dr. Khalifa Al-Khalifa and Prof. Mohsen Jafari. (Budget \$806.000)-(May 2016 - November 2019).
- **September 2014,** UREP: Safe Transport of Hazardous Materials in Qatar. With Dr. Khalifa Al-Khalifa. (Budget 40.000\$).
- **March 2013,** UREP: Airline flight scheduling optimization. With Prof. Abdel Magid Hamouda and Dr. Mohammed AL-Salem. (Budget 60.000\$).

SPECIAL PROFESSIONAL APPOINTMENTS

- Technical reviewer: Journal of the Operational Research Society, Computers & Operations Research, Transportation Research Part C: Emerging Technologies, International Journal of Planning and Scheduling, International Journal of Injury Control and Safety Promotion.
- Conference: World Conference on Transport Research Society, International Conference on Modeling, Simulation and Applied Optimization.

AWARDS

- The College of Engineering Researcher Award for Outstanding Contribution, 5th place, Qatar University 2013.
- Winning ISERC Paper, OR Track. Industrial and Systems Engineering Research Conference, Orlando, FL, May 2012.

MEDIA APPEARANCES AND INTERVIEWS

Internet:

- Qatar University News, (April 29, 2019).
- Website of Edinburgh Napier University, (July 11, 2018).

<https://blogs.napier.ac.uk/tri/2018/07/11/263/>

- Qatar University News, (March 29, 2018)

Newspapers:

- Traffic Safety Ambassador
Al Arab, April 30, 2019
- Community dialogue on the causes of accidents
Al Raya, January 21, 2019
- Inauguration of the General Traffic Department Office at QTTSC
Alarab, February 22, 2018
- 32th Gulf Traffic Week 2016
Al-sharq, March 2016
- National Workshop on Effective Actions on Accident Prevention
Gulf-times, October 2015

Radio:

- Doha Radio, February 24, 2019
- Oryx, November 27, 2018
- Doha Radio, November 21, 2018

Social Media:

- Ministry of Interior, November 27, 2018

COMPUTER SKILLS

- **Programming language:** C, C++, Assembly Language x86
 - **Data base:** SQL, Oracle: SQL*Plus, ACCESS
 - **Optimization Software:** IBM ILOG CPLEX Optimization Studio, CPLEX, GUROBI, AMPL, LINDO, LINGO, Storm
 - **Manufacturing Software:** FlexCap, AnyLogic
 - **PTV software:** VISUM
 - **Traffic Counting:** COUNTpro
 - **Software:** Scientific Work Place, Latex, Respondus, Eviews, SPSS, Dream Weaver
 - **CMS and LMS:** JOOMLA, BLACKBOARD, MOODLE
 - **Web conferencing:** Adobe Connect, WebEX
 - **Certificate:** Microsoft Word, Excel, Power Point, Outlook Express, Access
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LANGUAGES

Arabic, English, French.
