



APPLICATION COVER SHEET

Date: February 26, 2015
To: Scholarship Selection Committee
2015-2016 Abdeldjelil "DJ" Belarbi Graduate Scholarship Award

Dear Selection Committee,

This is Iman Mehdipour, a third year Ph.D. Candidate in Civil Engineering Department at Missouri University of Science and Technology under direction of Prof. Kamal H. Khayat. It is a great pleasure and beneficial opportunity for me to apply for the **“Abdeldjelil “DJ” Belarbi”** Graduate Scholarship. The DJ Belarbi Graduate Scholarship is a great match to my interests and my background. This could be a great opportunity to enrich my academic achievement, as well as to enhance my experience through the research and travel in the next ACI convention which will be held at fall in Denver. I would like to thank the Scholarship Committee for supporting students with an opportunity for financial assistance through your scholarship program.

Enclosed please find my application materials, including completed application form, resume, transcripts, and enrollment letter.

I appreciate your consideration of my application.

Respectfully submitted,

Iman Mehdipour

*PhD Candidate and Graduate Research Assistant
Center for Infrastructure Engineering Studies (CIES)
Missouri University of Science and Technology
204 Engineering Research Laboratory, 500 W. 16th St.
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**MISSOURI
CHAPTER**



American Concrete Institute

2015–2016 Honorary

Abdeldjelil "DJ" Belarbi

Graduate Scholarship

PURPOSE: To honor long-time ACI Missouri member and Missouri S&T faculty Dr. DJ Belarbi by promoting the development of future engineers, contractors and architects the ACI Missouri Chapter has established the Honorary DJ Belarbi Graduate Scholarship Award. The annual award will provide financial assistance for graduate students pursuing a course of study in the field of concrete design, materials, or construction.

ELIGIBILITY: To receive consideration, a student must be currently enrolled or accepted into a graduate program at an institution located within the boundaries of the ACI Missouri Chapter with a course of study related to concrete materials, design, or construction. During the award year, the student should be enrolled in at least three academic credits per semester/quarter.

CRITERIA: The following criteria must be met by the applicant prior to receiving the award but not necessarily at the time of application:

1. Possess a bachelor's degree from a higher education institution.
2. Be accepted or currently enrolled for graduate study at a college or university in a program in the area of concrete where design, materials, construction are offered.
3. Maintain status as a full time student during the entire scholarship year.

SUBMISSION: A completed, typewritten application package must be received by the Student Activities Committee, Missouri ACI Chapter by 5pm **Friday, March 6th**. The package shall include the following:

- a. Complete application form (attached below).
- b. Undergraduate and graduate transcripts. An unofficial transcript from your current institution is sufficient if it shows all credit from other institutions you have attended.
- c. Letter of enrollment or acceptance in a graduate program from an institution located within the ACI Missouri Chapter district.
- d. Two letters of recommendation addressing potential for growth, character, leadership capacity, and career interest. One should be from a faculty member. Recommendations must be submitted directly to the ACI Missouri Chapter.

SELECTION OF AWARD RECIPIENTS: Upon receipt of all applications by the deadline of 5pm, **Friday, March 6th**, the Student Activities Committee shall review the applications. Those applicants who have satisfactorily completed the application will be considered for the award by a three-member, ad-hoc Committee, approved by the board of directors and chaired by the past president of ACI, Missouri Chapter. **Selection is based upon academic achievement and awards, relevant experience, quality of application including writing skills, and displayed interest in concrete.**

NUMBER, AMOUNT AND PAYMENT OF AWARD: The ACI Chapter will present up to two (2) \$2500 scholarship awards. Awards will be announced at the annual meeting of the ACI Missouri Chapter held in conjunction with the Missouri Concrete Conference in Rolla, MO at noon on March 31st, 2015. All winners and their advisors will receive complementary tickets to this meeting and are encouraged to attend. Payment will be made in two installments at the beginning of Fall and Winter semesters of the award year. If the stu-

dent fails to provide proof of registration for graduate study for each of those semesters, the award will be forfeited.

APPLICATION

Due: Friday, March 6th , 2015

AMERICAN CONCRETE INSTITUTE – MISSOURI CHAPTER GRADUATE SCHOLARSHIP AWARD

PERSONAL INFORMATION

NAME: Iman Mehdipour	
ADDRESS: 204 Engineering Research Laboratory, 500 W. 16 th St. Missouri University of Science and Technology, Rolla, Missouri	
TELEPHONE: 573-466-3782	EMAIL im6w3@mst.edu

HIGHER EDUCATION

INSTITUTION	DATES ATTENDED	CREDIT HOURS	DEGREES AWARDED AND DATE
Missouri university of Science and Technology, MO, USA	2013-present	21	
International University of Qazvin, Qazvin, Iran	2009-2012	32	Master of Science (MSc) in Civil Engineering, Feb. 2012
Islamic Azad University of Qazvin, Qazvin, Iran	2004-2009	143	Bachelor of Science (BSc) in Civil Engineering, July 2009

GRADUATE STUDY

Institution: Missouri University of Science and Technology		Location: 1870 Miner Circle, Rolla, MO, 65409	
Date of Admission: Spring 2013		Period of Study: Four years	
Degree Expected: Ph.D.		Major: Civil Engineering	Minor Civil
Previous MO-ACI graduate scholarship? Yes ☐ , No ☒ If yes, when?:			

- 1. What reasons do you believe support your application for this award? (Financial need is not an important criterion.)**

I started my Ph.D. program under direction of Prof. Kamal H. Khayat in the field of "Ecological and Crack-Free High Performance Concrete" since 2013. I believe that my academic achievement, community services experience, and my six years of experience working as an engineer make me a good candidate for the scholarship award.

During my research work, I published two books, seven peer-reviewed ISI journals, and 24 conference papers. During the last two years, I participated in several research investigations, including the design of special concrete subjected to aggressive environments and determination of water content in fresh concrete in transit trucks. I was also given a chance to carry out an interdisciplinary research in conjunction with the Electrical and Computer Engineering Department, to investigate the fiber distribution in cement-based materials using microwave nondestructive technique.

I have taken several concrete technology and concrete design courses, such as "Advanced Concrete Technology", "Infrastructure Strengthening with Composites", and "Advanced Behavior of Reinforced and Pre-stressed Concrete" and obtained a grade of A; the highest in the class. In addition, I have been fortunate to serve as instructor, teaching assistant, and research assistant for undergrad students in Iran, which some of whom are studying in the USA now. I have been continuing to maintain an excellent academic record of academic achievement with a GPA of 4.0, while working fifteen hours a week as teaching assistant to finance the education of my wife. Throughout my life, I have participated in extracurricular activities including valuable volunteer experiences, such as church and mosque cleanup and spreading foods.

2. What is your background in the field of concrete? Of particular interest is your experience in design, materials, construction, and/or research. Include a summary of your work experience and accomplishments.

I have been involved in several projects, such as mixture design and quality control of concrete materials for pavement and infrastructure applications. I designed some special concrete materials having high durability in aggressive environments. I also designed several residential concrete buildings by employing engineering software package, such as ETABS. I am currently working on self-healing materials and fibers to produce cost effective and crack-free concretes for pavement and infrastructure applications. I am also trying to employ nondestructive techniques to monitor the behavior of concrete structures made with such materials.

I worked as an engineer in Construction Materials Institute (CMI) in Iran for six years. From 2012 to 2013, I taught "Concrete Technology" and "Computer in Civil Engineering" courses for undergrad students at Azad University in Iran. As a research assistant of Civil Engineering and Construction Research Center (CCRC) of Azad University, I assisted nearly 20 undergrad students in concrete projects, which some of whom are studying in the USA now. During my research, I published two books, seven peer-reviewed ISI journals, 24 conference papers, and five technical reports. I recently awarded the student travel grant for 24th American Society for Nondestructive Testing research symposium to present my research work.

3. What is your plan for continuing your education? What goals have you established for your education?

My long-term goal is to be actively involved in my fields of interests as a faculty member and to continue my research and share my knowledge with my students. I believe that both my academic and professional work experiences will give me a unique perspective on both teaching and researching concrete-related topics. I can bring my personal experiences to the classroom to give my students "real world" experiences.

I would like to find some related internships, because they are an opportunity to obtain hands-on experience with an employer in my professional field of interest. I am going to participate in different conferences, workshops, and ACI conventions. I believe attending such professional meetings will not only allow me to interact on a technical level with in-the-field researchers, but also will provide an opportunity for professional development and networking towards my future career.

I look forward to becoming as professional expert in the field of concrete technology and my final mission is to educate, enrich, and improve students through both training and projects. I would also like to develop some simple software and applications for concrete mix design optimizations which could be effectively employed in the industry to make cost-effective concretes with high performance.

4. What specific work relating to concrete, such as design, materials, construction, or research, will you pursue during your graduate work?

The main objective of my research is to develop and validate the behavior of a new class of environmentally friendly and crack-free high-performance concrete that is cost effective with a low carbon footprint and high cracking resistance for pavement and infrastructure applications. Field evaluation of such new concrete materials is investigated to establish guidelines for mix design, casting, and performance of such sustainable infrastructure materials.

In this investigation a particular emphasis is given on automatic repair of harmful cracks without onerous labor and capital requirements of affected structures. We are trying to develop self-healing materials and using some specific fibers to store some functional components inside of the fibers which will be embedded into a composite matrix. Thus when damage or cracking happens, the healing agents will flow out and heal the cracks subsequently.

I am also going to develop a new nondestructive testing method to evaluate the distribution of fibers inside the cement-based materials by employing microwave nondestructive technique. Inspection of fiber distribution in fiber-reinforced concrete structures is of high importance from a structural health monitoring point-of-view.

5. What will your program of study be during the year of this award? (List coursework and research)

I am going to take "Scanning Electron Microscopy" and "Structural Health Monitoring" courses for the next year. Such courses can probably enable me to identify proper test methods for monitoring the self-healing process of cement-based materials made with self-healing agents and fibers.

From research point of view, I will make efforts to use self-healing characteristics for developing crack-free concrete materials targeted for pavement and infrastructure applications. The optimized concrete materials will be implemented on job site to monitor the long term characteristics of the proposed mixtures to establish guidelines. I am also going to employ microwave nonrestrictive technique to evaluate the homogeneity of fiber dispersion inside the proposed concrete mixtures. This technique could be effectively used to assess the performance of fiber-reinforced concretes.

Depending on the research budget, I would like to present my obtained results in the next ACI Convention which will be held in Denver. This could be a great opportunity to enrich my academic achievement, as well as to enhance my experience through the research and travel in the next ACI convention. Most probably, I will be given a chance to advise some undergrad students on decorative concrete for attending ACI student competition for the next year.

REFERENCES

List the names of two people from whom you have requested recommendations be emailed or mailed to the ACI-MO Chapter at the address below.

NAME	TITLE	EMPLOYER	ADDRESS
Kamal H. Khayat	Ph.D., FACI Director, Center for Infrastructure Engineering Studies Vernon and Maralee Jones Endowed Professor of Civil Engineering	Missouri University of Science and Technology	224 Engineering Research Laboratory 500 West 16th Street, Rolla, MO 65409-0710
Reza Zoughi	Schlumberger Distinguished Professor, Electrical and Computer Engineering Department Director, Applied Microwave Nondestructive Testing Laboratory Fellow of American Society for Nondestructive Testing	Missouri University of Science and Technology	224 Emerson Electric Company Hall 301 W. 16th Street, Rolla, MO 65409-0040

I certify that the information contained in this application is true and that I have answered all of the questions to the best of my ability. I agree that I will notify the ACI Missouri Chapter immediately when my educational program is interrupted or changed in any manner that may jeopardize the intent of the award. I further agree that I will accept the award only as long as I successfully pursue the graduate study program I have described above and for which the reward was made.

Signature:  Date: February, 26th, 2015

RETURN COMPLETED APPLICATION PACKAGE BY FRIDAY, MARCH 6TH, 2015 TO
dane.shaw@jacobs.com (PREFERRED SUBMISSION METHOD)

or

Dane M. Shaw
Jacobs Engineering
501 N. Broadway
Saint Louis, MO 63102

Appendix A

RESUME

Iman Mehdipour

Contact Information

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Engineering Studies (CIES)
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Rolla, Missouri 65409

Education

- 2013-present **Ph.D. Student**, Civil Engineering,
Missouri university of Science and Technology, MO, USA
Advisor: Dr. K.H. Khayat
GPA: 4.0/4.0
- 2009-2012 **Graduate Student (M.Sc.)**, Civil and Geotechnical Engineering,
Department of Civil Engineering, International University of Qazvin, Qazvin, Iran
Advisors: Dr. M. Ghazavi & Dr. R. Ziaie
GPA: 17.99/20 (Ranked 1st among all M.Sc. students)
- 2004-2009 **Undergraduate Student (B.Sc.)**, Civil Engineering,
Department of Civil Engineering, Islamic Azad University of Qazvin, Qazvin, Iran
GPA: 18.26/20 (Ranked 1st among all B.Sc. students)

Academic and Professional Experience

- 2013-present Graduate Research Assistant, Center for Infrastructure Engineering Studies (CIES), Missouri University of Science and Technology, Rolla, MO, USA
- 2014-present Interdisciplinary project, Applied Microwave Nondestructive Testing Laboratory (AMNTL), Missouri University of Science and Technology, Rolla, MO, USA
- 2012-2013 Lecturer, Islamic Azad University, Buinzahra Branch, Buinzahra, Iran
- 2007-2012 Research Assistant, Construction Materials Institute (CMI), University of Tehran, Tehran, Iran
- 2010-2012 Graduate Research Assistant, Construction of Concrete Research Center (CCRC), Islamic Azad University, Qazvin Branch, Qazvin, Iran

Teaching Experience

Mechanics of Materials	Assistant	undergrad (2014-2015)	2 semesters
Concrete Technology	Instructor	undergrad (2012-2013)	2 semesters
Computer in Civil Engineering	Instructor	undergrad (2012-2013)	1 semester
Foundation Engineering	Instructor	undergrad (2012-2013)	1 semester
Design of Earth Dams	Assistant	undergrad (2012-2013)	2 semesters
Design of Concrete Structures I	Assistant	undergrad (2009)	1 semester
Structural Analysis	Assistant	undergrad (2008)	1 semester
Soil Mechanics	Assistant	undergrad (2008)	1 semester

Research Experience

Advanced Composite Materials

Rheology and workability of cement grout, mortar, and concrete

Stability of fresh concrete

Mechanical properties, visco-elastic properties of concrete

Effects of mineral additives on concrete performance

Fiber reinforcement and toughness

Durability and deterioration of cement-based materials in aggressive environments

Health Monitoring and Nondestructive Testing

Microwave nondestructive evaluation of fiber-reinforcement concrete
Active microwave thermography of fiber-reinforcement concrete
Electrical resistivity and ultrasonic pulse velocity of concrete subjected to aggressive environments

Statistical Modeling

Response surface method, Factorial design, Mixture design, Multi-objective optimization

Numerical Simulation and Modeling of Geotechnical Problems

Slope stability, Soil reinforcement, Seepage, Foundations, Geocell reinforcement

Relevant Courses

Ph.D. Courses:

Advanced Concrete Technology (Instructor: Dr. Khayat)
Concrete Rheology and Self-consolidating Concrete (Instructor: Dr. Khayat)
Nondestructive Testing (Instructor: Dr. Zoughi)
Transport Application of Geophysics (Instructor: Dr. Anderson)
Statistical Data Analysis (Instructor: Dr. Samaranayake)
Infrastructure Strengthening with Composites (Instructor: Dr. Myers)
Advanced Behavior of Reinforced and Pre-stressed Concrete (Instructor: Dr. Sneed)

Membership in Scientific and Professional Societies

Student member	American Society for Nondestructive Testing (ASNT) - (2014-Present)
Student member	American Concrete Institute (ACI) - (2013-Present)
Student member	American Society of Civil Engineers (ASCE) - (2013-Present)
Student member	Iranian Concrete Institute (ICI) - (2008-2012)

Academic Service and Activities

Reviewer

Journal of Materials in Civil Engineering, American Society of Civil Engineering
Journal of Construction and Building Materials, Elsevier publication
Journal of Material & Design, Elsevier publication
Arabian Journal of Geosciences, Springer publication

Awards and Honors

2015	ASNT student travel reimbursement grant for 24th ASNT research symposium
2012	1 st rank, M.Sc graduation, Geotechnical Engineering, International University of Qazvin
2009	1 st rank, B.Sc graduation, Civil Engineering, Islamic Azad University
2009	1 st Place Student concrete competition, Iranian Concrete Institute
2009	3 rd Place Student concrete competition, Iranian Concrete Institute
2006	1 st Place Student concrete competition, Iranian Concrete Institute
2006	Best research award, Civil Engineering, Islamic Azad University
2006	Awarded of "Exceptional Talent Student", Civil Engineering, Islamic Azad University

Presentations

2013	The 5 th North American conference on the design and use of self-consolidating concrete, Chicago, USA
2012	The 1 st National symposium of lightweight concrete, Tehran, Iran
2011	The 3 rd National symposium of self-compacting concrete, Kerman, Iran
2009	The 7 th Iranian conference of concrete, Tehran, Iran
2009	The 1 st International Conference on Concrete Technology, Tabriz, Iran
2009	The 8 th International congress of civil engineering, Shiraz, Iran

Publications

Citations record (Google Scholar)

Citations: 33
h-index: 3
i10-index 1

Books

M. Shekarchi, N.A. Libre, F. Sabet, **I. Mehdipour**, "Guideline for Guidelines for hot weather concreting", Elme-O-Adab publications, Tehran, 2012 (in Persian)

M. Jesmani, **I. Mehdipour**, M. Arabshahi, "Soil mechanics", Poursan Pazhuhesh publications, Tehran, 2011 (in Persian)

Peer-reviewed Journal Articles

- [1] A. Emdadi, **I. Mehdipour**, N.A. Libre, M. Shekarchi, "*Optimized Workability and Mechanical Properties of FRCM by Using Fiber Factor Approach: Theoretical and Experimental Study*", Materials and Structures, (2014) 1-13, doi:10.1617/s11527-013-0221-3.
- [2] **I. Mehdipour**, N.A. Libre, M. Shekarchi, M. Khanjani, "Effect of Workability Characteristics on the Hardened Performance of FRSCMs", Construction and Building Materials, 40 (2013) 611-621.
- [3] **I. Mehdipour**, M. Vahdani, N.A. Libre, M. Shekarchi, "Relationship between Workability and Mechanical Properties of Fibre-Reinforced Self-Consolidating Mortar", Magazine of Concrete Research, 65(17) (2013) 1011–1022.
- [4] **I. Mehdipour**, M.S. Razzaghi, K. Amini, M. Shekarchi, "Effect of Mineral Admixtures on Fluidity and Stability of Self-Consolidating Mortar Subjected to Prolonged Mixing Time", Construction and Building Materials, 40 (2013) 1029–1037.
- [5] **I. Mehdipour**, M. Ghazavi, R.Z. Moayed, "Numerical Study on Stability Analysis of Geocell Reinforced Slopes by Considering the Bending Effect", Geotextiles and Geomembranes, 37 (2013) 23–34. (Selected as high downloaded paper)
- [6] M. Jesmani, **I. Mehdipour**, A. Ajami, "Comparison between 2d And 3d Behaviour of Sheet Piles by Finite Element Method", Kuwait journal of science and engineering, 38(2B) (2011).
- [7] **I. Mehdipour**, N.A. Libre, M. Shekarchi, "Development of Fiber Reinforced SCM for Sustainable Construction", Journal of Structural Engineering and Geotechniques, 1(1), (2011) 19-26.
- [8] **I. Mehdipour**, M. Vahdani, K. Amini, M. Shekarchi "Fresh and Hardened Characteristics of Self-Consolidating Mortar Incorporating Fly ash and Metakaolin: Experimental and Statistical Study" (Under review in Material & Design).
- [9] **I. Mehdipour**, K.H. Khayat, "Effect of Particle Size Distribution on Flow Characteristics and Packing Density of Blended cement" (To be submitted).
- [10] **I. Mehdipour**, M. Horst, B. Conley, R. Zoughi, K.H. Khayat, "Evaluation of steel fiber distribution in cement-based materials using near-field microwave reflectometry" (To be submitted).

Refereed Conference Papers

- [1] K.H. Khayat, **I. Mehdipour**, "Optimization of Binder Compositions to Design Ecological Concrete", Wet Packing Density Approach. ECO-CRETE, International Symposium on Sustainability, Iceland, 2014.
- [2] **I. Mehdipour**, M. Horst, B. Conley, R. Zoughi, K.H. Khayat, "Determination of steel fiber distribution in cement-based materials using near-field microwave method", 24th ASNT Research Symposium, California, USA, March 2015. (Accepted for presentation)
- [3] A. Foudazi, **I. Mehdipour**, K.M. Donnell, K.H. Khayat, "Detection of steel fibers in cement-based materials by active microwave thermography", 14th International Symposium on Nondestructive Characterization of Materials, Marina del Rey California, June 22-26, 2015. (Accepted for presentation)
- [4] **I. Mehdipour**, N. Nouri, M. H. Karimnezhad, H.R. Salehi, M. Shahrabadi, "Effect of prolonged mixing time on fresh and hardened properties of self-consolidating mortar", 7th international conference on self-compacting concrete and/or the 1st conference on rheology and processing of construction materials, Paris, 2013.
- [5] S. Fakhretaha, R. B. Ardalan, N.A. Libre, **I. Mehdipour**, M. Shekarchi, "The Effect of Inert and Pozzolanic Powders on Properties of Self-Consolidating Mortar", The fifth North American conference on the design and use of self-consolidating concrete, Chicago, USA, 2013.
- [6] N. Nouri, M.H. Karimnezhad, **I. Mehdipour**, M.R. Sohrabi, S.M. Noroozadeh, "Influence of chemical admixtures on fluidity and stability of self-consolidating mortar subjected to prolonged agitating", The fifth North American conference on the design and use of self-consolidating concrete, Chicago, USA, 2013.
- [7] **I. Mehdipour**, M.S. Razzaghi, K. Amini, "Correlation of stability and durability performance of self-consolidating mortar containing supplementary cementitious materials". International Congress on Durability of Concrete, ICDC, Norway, 2012.
- [8] **I. Mehdipour**, Sh. Karimzadeh, M.H. Karimnezhad, M. Khanjani, "Effect of glass fiber on mechanical properties and de-icing salt scaling resistance of decorative self-consolidating cementitious materials", 8th RILEM international symposium on fibre reinforced concrete: challenges and opportunities, Portugal, 2012.
- [9] **I. Mehdipour**, K. Amini, M. Khanjani, "Coupled effects of glass fiber and time on fluidity and stability of self-compacting composites", 8th RILEM international symposium on fibre reinforced concrete: challenges and opportunities, Portugal, 2012.
- [10] R.Z. Moayed, M. Ghazavi, **I. Mehdipour**, "Equivalent composite model of geocell reinforcement in slope stability analysis", 5th Asia-Pacific Conference on Unsaturated Soils, Pattaya, Thailand, 2011.
- [11] **I. Mehdipour**, N.A. Libre, M. Vahdani, "Effects of polypropylene fibers on the stability of self-consolidating engineered cementitious composites",
- [12] A.A. Taheri, N.A. Libre, **I. Mehdipour**, M.H. Rokhforooz, "Effect of volume fraction of glass fiber on rheology and shrinkage of self-consolidating cement paste", SCC Montreal Conference, 2010.
- [13] M. Vahdani, **I. Mehdipour**, S. Yusefi, "Effect of viscosity modifying admixtures on the rheological properties and stability of self-consolidating cementitious materials", The 35th Conference on our world in concrete & structures Singapore, 2010.

- [14] **I. mehdipour**, M. Vahdani; N. Nouri, "Effect of nano-silica gel on fresh and hardened properties of self-consolidating cementitious material", 3rd International Congress on Nanoscience and Nanotechnology, Shiraz, Iran, 2010.
- [15] **I. mehdipour**, M. Ghazavi, S. Abdolizadeh, "Interaction of Drainage Blanket and Cut-Off Wall on Downstream Slope Cover in Homogeneous Earth Dams", ICOLD, Kyoto, 2012.
- [16] R.Z. Moayed, **I. Mehdipour**, A. Judi, "Numerical modeling of the combined axial, lateral and moment loading of piles in clayey soils", International Conference Geotechnical Challenges in Megacities, Moscow, 2010.
- [17] M. Ghazavi, R.Z. Moayed, **I. Mehdipour**, "Numerical modeling for stability analysis of geocell reinforced slopes", International Symposium on Deformation Characteristics of Geomaterials, Seoul, Korea, 2010.
- [18] N.A. Libre, **I. Mehdipour**, A. Alinejad, N. Nouri, "Effect of glass fiber on shrinkage and mechanical properties of highly flowable cement paste", 1st International Conference on Concrete Technology, Tabriz, Iran, 2009.
- [19] **I. Mehdipour**, A. Sangtarashha, A. Shafieefar, N.A. Libre, M. Shekarchi, "Shrinkage of highly flowable cement paste reinforced with glass fiber", Advanced concrete materials (ACM) international conference, Stellenbosch, South Africa, 2009.
- [20] N.A. Libre, M. Shekarchi, **I. Mehdipour**, M. Dibaee, S. Moghaddam, "Rheological properties of polypropylene fiber reinforced highly flowable mortar", Proceedings of 8th International Symposium on Utilization of High-Strength and High-Performance Concrete, Tokyo, Japan, 2008.
- [21] N.A. Libre, **I. Mehdipour**, A. Sangtarashha, A. Shafieefar, M. Shekarchi, "Shrinkage of highly flowable mortar reinforced with polypropylene fiber", The 3rd Asian Concrete Federation International Conference, ACF/VCA, HoChi Minh city, Vietnam, 2008.
- [22] N.A. Libre, **I. Mehdipour**, A. Alinejad, N. Nouri, "Rheological properties of glass fiber reinforced highly flowable cement paste" The 3rd Asian Concrete Federation International Conference, ACF/VCA 11-13 November, HoChi Minh city, Vietnam, 2008.
- [23] N.A. Libre, A. Emdadi, **I. Mehdipour**, M. Vahdani, "SCC mixtures with different aggregate gradation and limestone powder", 5th international RILEM symposium on self-compacting concrete, Ghent, Belgium, 2007.
- [24] A. Emdadi, N.A. Libre, **I. Mehdipour**, M. Vahdani, "Investigation on the parameters that influence viscosity of cement paste", Advances in Cement Based Materials and Application to Civil Infrastructure, Lahor, Pakistan, 2007.

Technical Reports

- [1] K.H. Khayat, **I. Mehdipour**, Design and Performance of Crack-Free Environmentally Friendly Concrete "Crack-Free Eco-Crete", National University Transportation Center, (No. NUTC R322), 2014.
- [2] M. Shekarchi, N.A. Libre, **I. Mehdipour**, "Lightweight dry mix mortar", LECA Company 2012.
- [3] M. Shekarchi, N.A. Libre, **I. Mehdipour**, "Lightweight concrete on steel deck", LECA Company, 2012.

- [4] M. Shekarchi, N.A. Libre, F. Sabet, **I. Mehdipour**, "Guidelines for concreting in hot weather" MAPNA Company, Iran, 2012.

Computer Skills

Civil engineering software	ABAQUS, FLAC, PLAXIS, SLIDE, GEO STUDIO, ETABS, AUTOCAD
Statistical software	Design Expert, Minitab
General	Microsoft Office (Word, Excel, PowerPoint)

References

Dr. Kamal H. Khayat, Ph.D., P.Eng., F.ACI

Vernon & Maralee Jones Endowed Professor of Civil Engineering
Department of Civil, Arch. and Environmental Engineering
Director, Center for Infrastructure Engineering Studies
Missouri University of Science and Technology
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Dr. Reza Zoughi

Schlumberger Distinguished Professor, Electrical and Computer
Engineering Department
Director, Applied Microwave Nondestructive Testing Laboratory
Fellow of American Society for Nondestructive Testing
Fellow of IEEE Instrumentation and Measurement
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Dr. Mohammad Shekarchi

Director of Construction Materials Institute at University of Tehran
Full Professor at University of Tehran
President at Road, Housing and Urban Development Research Center, Iran
Email: shekarch@ut.ac.ir Phone: + 98-21-88973631

Dr. Nicolas Ali Libre

Adjunct Professor
Department of Civil, Arch. and Environmental Engineering
Research Scientist, Center for Infrastructure Engineering Studies
Missouri University of Science and Technology
219 Engineering Research Laboratory, Rolla, MO, 65409
Email: libren@mst.edu Phone: +1-573-466-3780

Appendix B

TRANSCRIPTS AND ENROLLMENT LETTER



University of
Science & Technology

OFFICE OF THE REGISTRAR

300 West 13th Street
103 Parker Hall
Rolla, MO 65409-0930
Phone: 573-341-4181
Fax: 573-341-4362
registrar@mst.edu
<http://registrar.mst.edu/>

Iman Mehdipour

January 09, 2015

TO WHOM IT MAY CONCERN:

An academic certification for: Mehdipour, Iman

This student has a cumulative GPA of 4.000 at a Graduate level.

Student Enrolled status is Full-Time for the 2015 Spring Semester, 01/20/2015 through 05/15/2015.

This student is in GOOD Academic Standing.

This certification is valid only when it bears the seal of the Missouri University of Science and Technology and the signature of the Registrar.

Our certification system is designed to expedite the sharing of academic information with many agencies and companies. We appreciate your accepting this certification since hand-processed special forms slow our response.

School Code: 002517

Certifying Official

A handwritten signature in cursive script that reads "Deanne Jackson".

Deanne Jackson

Registrar

END OF CERTIFICATION



Missouri University of Science and Technology

Date: 02/27/2015 Page: 1 of 1

Official Transcript

Name: **Mehdipour, Iman**
 Student ID: **12404900**
 Date of Birth: **07/27/XXXX**
 Soc. Sec. Number: **NOT-FOUND**

This transcript has been produced for:

Iman Mehdi pour
ISSUED TO STUDENT

Course Number	Course Title	Grade	Hours	Remarks
---------------	--------------	-------	-------	---------

Degrees Awarded
 Islamic Azad University
 BS 07-2009

SPNG 2013		GRAD	CV ENG-PHD
Civ Eng	401	Advanced Concrete Technology	A 3.0
Civ Eng	490	Research	S 6.0
GPA Hrs Att		Hrs Em	Qual Pt GPA
GRAD Term:		3.0 9.0	12.00 4.000
GRAD CUM:		3.0 9.0	12.00 4.000

SUM 2013		GRAD	CV ENG-PHD
Civ Eng	490	Research	S 3.0
GPA Hrs Att		Hrs Em	Qual Pt GPA
GRAD Term:		0.0 3.0	0.00 4.000
GRAD CUM:		3.0 12.0	12.00 4.000

FALL 2013		GRAD	CV ENG-PHD
Civ Eng	374	Infrastruct Strength Com	A 3.0
Civ Eng	490	Research	S 3.0
Stat	353	Stat Data Analysis	A 3.0
GPA Hrs Att		Hrs Em	Qual Pt GPA
GRAD Term:		6.0 9.0	24.00 4.000
GRAD CUM:		9.0 21.0	36.00 4.000

SPNG 2014		GRAD	CV ENG-PHD
Civ Eng	419	Adv Bhv Reifor&Prest Con	A 3.0
Civ Eng	490	Research	Y 3.0
Elec Eng	375	Nondestructive Testing	A 3.0
GPA Hrs Att		Hrs Em	Qual Pt GPA
GRAD Term:		6.0 6.0	24.00 4.000
GRAD CUM:		15.0 27.0	60.00 4.000

Course Number	Course Title	Grade	Hours	Remarks
SUM 2014				
Civ Eng	490	Research	GRAD S 3.0	
GPA Hrs Att		Hrs Em	Qual Pt	GPA
GRAD Term:		0.0 3.0	0.00	
GRAD CUM:		15.0 30.0	60.00	4.000

FALL 2014		GRAD	CV ENG-PHD
Civ Eng	5750	Transport Appl of Geophysics	A 3.0
Civ Eng	6099	Research	S 3.0
Geo Eng	5441	Engr Geol & Geotechnics	A 3.0
GPA Hrs Att		Hrs Em	Qual Pt GPA
GRAD Term:		6.0 9.0	24.00 4.000
GRAD CUM:		21.0 39.0	84.00 4.000

SPNG 2015		GRAD	CV ENG-PHD
Civ Eng	6000	Special Problems	IP 3.0
Civ Eng	6001	Concrete Rheology & Scc	IP 3.0
Civ Eng	6099	Research	IP 3.0
GPA Hrs Att		Hrs Em	Qual Pt GPA
GRAD CUM:		21.0 39.0	84.00 4.000

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Official transcripts are printed on blue safety paper and bear the university seal and the signature of the registrar. See reverse side for explanation of grades.

In accordance with the Family Educational Rights and Privacy Acts of 1974, information from this transcript may not be released to a third party without written consent of the student. If you are unable to comply fully with this requirement, please return this record to us immediately.

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 NOT REQUIRED

Shanne Jackson

Registrar



شماره ۸۲۵۳۰۴ سری هـ

ردیف دفتر ثبت



جمهوری اسلامی ایران

قوة قضائية - اداره مترجمين رکی

دارالترجمة رسمی شماره ۳

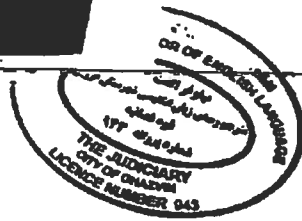
لوفار الفت شایان، مترجم رسمی زبان انگلیسی قوه قضائیه

ج. ۱. ایران، شماره پروانه: ۹۳۳

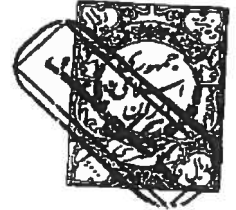
ادرس: قزوین، فردوسیه، خیابان امام، بانک فروشی تجاری

تلفن: ۳۳۳۳ - ۹۵۹۲

NILUFAR OLFAT-SHAIVAN, official English Translator to the Justice Administration



OFFICIAL TRANSLATION FROM PERSIAN
IN THE NAME OF GOD
Islamic Republic of Iran
Imam Khomeini International University
Educational Deputy
Complementary Education



Date: Oct. 27, 2012

No.: S/1/37493

This is to certify that **Mr. IMAN MEHDIPOUR**, Son of Ahmad, holder of ID Card No. 4615, student in the field of **Civil Engineering- Geotechnics**, entrance of Oct. 2009, Master's degree of the university has acquired the **first rank** among the above entrances (12 persons) with average 17.99. His thesis's score was 19.25 and now he has graduated.

This certificate has been issued according to his request.

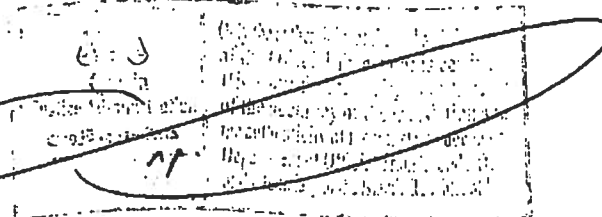
Signed & Sealed:

Imam Khomeini International University

Internal Student Affair Director General, M. H. Yousefi

Manager of University Complementary Education, Gh. Kordestani

TRUE TRANSLATION CERTIFIED/Nov. 04, 2012/ MEHDIPOUR. Certificate



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شماره ۸۲۵۲۹۲ سری ه

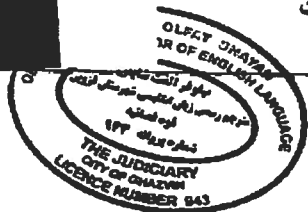
ردیف دفتر ثبت



جمهوری اسلامی ایران

تأییدیه - اداره مترجمین رسمی

دارالمترجمه و تفسیر شماره ۳
نیلوفر اوفت شایان، مترجم رسمی، زبان انگلیسی، قوه قضائیه
ج. ا. ایران، شماره ۹۶۶۲۰
درس: حقوق، فرد و اس. س. س.، دفتر تروشی جمالی
تلفن: ۳۳۳۰۱۵۵۷
NILUFAR OLFAT-SHAYAN, official English
Translator to the Justice Administration



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Imam Khomeini International University
Educational Deputy
Complementary Education
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Address: Imam Komeini International University
Postal Code: 34149-16818



Date: July 8, 2012
No.: S/1/34545

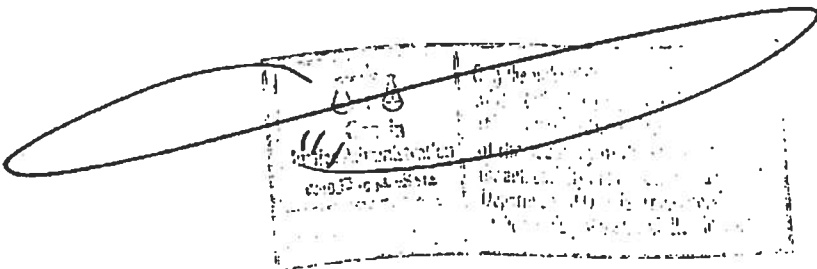
Certificate of Transcript

This is to certify that **MR. IMAN MEHDIPOUR** (holder of the photograph), Son of Ahmad, ID Card No. 4615, issued in Tehran, born in 1985, has been studding from 1st semester academic years 2009-2010 up to Feb. 2012 in Master's Degree in the field of **Civil Engineering- Geotechnics**, Faculty of technical & Engineering.

The transcripts and credits of mentioned-named person is without alteration and modification is enclosed in 1 page with an overall average of 17.99 (seventeen point ninety nine).

Signed & Sealed:
Imam Khomeini International University
Internal Student Affair Director General, M. H. Yousefi
Manager of University Complementary Education, Gh. Kordestani

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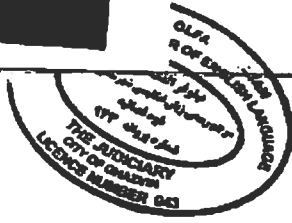
شماره ۸۳۴۶۳۳ سری

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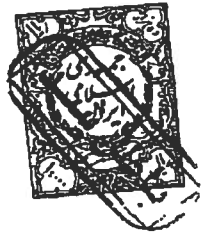


جمهوری اسلامی ایران
اداره مترجمین رسمی

دارالتربیه رسمی شماره ۳
مترجم رسمی زبان انگلیسی قوه قضائیه
پیشتر الفت شایان، مترجم رسمی زبان انگلیسی قوه قضائیه
ج. ۱. ایران. شماره پروانه: ۹۴۳
آدرس: قزوین، فردوسی شمالی، جنب رنگ فروشی جمالی
تلفن: ۳۳۳-۱۵۷
Translator to the Justice Administration



OFFICIAL TRANSLATION FROM PERSIAN
Imam Khomeini International University
Golestan University Comprehensive System
TRANSCRIPTS



Date : Oct. 27, 2012
Name & Surname: MR. IMAN MEHDIPOUR
Father's Name : Ahmad
National No. : 0080890415
Educational Group: Civil
Graduation: Master's Degree (Discrete) - Daily Last Situation : Graduated
Student No : 886173004
ID Card No: 4615
Faculty : Technical & Engineering
Field: Civil Engineering- Geotechnics

Course Title	Credits	Score
Advanced Engineering Mathematics, Geotechnics	3/0	17.50
Advanced Soil Mechanics, Geotechnics	3/0	16.75
Soil Dynamics, Geotechnics	3/0	16.15
Marine Geotechnics, Geotechnics	3/0	18.50

Average: 17.23 Passed Credits: 12.0

2nd semester 2009-2010

Course Title	Credits	Score
Advanced Foundation Engineering, Geotechnics	3/0	18.50
Numerical Methods in Soil Mechanics, Geotechnics	2/0	16.00
Earth Dams, Geotechnics	3/0	19.00
Site Investigation, Geotechnics	2/0	18.00

Average: 18.05 Passed Credits: 10.0

1st semester 2010-2011

Course Title	Credits	Score
Seminar, Geotechnics	2/0	19.50
Project, Geotechnics	6/0	Not announced

Average: 19.50 Passed Credits: 2.0

2nd semester 2010-2011

Course Title	Credits	Score
Project, Geotechnics	6/0	Not announced
Tunnel Engineering, Geotechnics	2/0	17

Average: 17.00 Passed Credits: 2.0

1st semester 2011-2012

Course Title	Credits	Score
Project	6	19.25

Average: 19.25 Passed Credits: 6 Total Average: 17.99 Total Passed Credits: 32

Overall Average: Total Passed Credits:

Course Title	Passed credits	Average	Total Passed credits	Total Average
Project	6	19.25	6	19.25
Specialized-selective	10	18.25	10	18.25
Seminar	2	19.50	2	19.50
Obligatory	14	17.05	14	17.05

Sealed & SIGNED:
Imam Khomeini International University
Educational Services Affair Manager
Dean of graduation Administration
Dean of Mechanism & Statistics Services Administration

Embossed seal of Ministry of Science, Research and Technology
Internal Student Affair Director General, M. H. Yousefi

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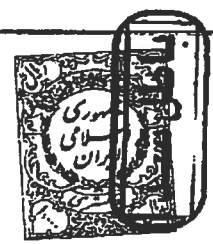
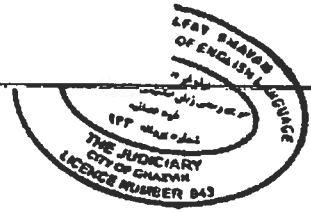
شماره ۸۱۴۱-۲ سری

و دیف دفتر ثبت



جمهوری اسلامی ایران
قوة قضائیه - اداره مترجمین رسمی

دارا ترجمه رسمی شماره ۳
پیشتر افت شایان، مترجم رسمی زبان انگلیسی قوه قضائیه
ج. ۱. ایران. شماره پروانه: ۹۴۳
آدرس: قزوین، فردوسی بنماهی، جنب ونگ فروشی جمالی
تلفن: ۳۳۴-۱۵۷
KHUFAR OLFAF-SHAYAN, Official English
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OFFICIAL TRANSLATION FROM PERSIAN

Emblem

Islamic Azad University

Bachelor's Degree
Graduation Diploma

SEALED PHOTO OF THE HOLDER

Confirmation of central organization No. 188821400276
Confirmation of central organization date: Oct. 17, 2009

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In view of the Articles of Association of the University passed on Nov. 3, 1987 by the Supreme Council of the Cultural Revolution and the single-article Act passed by the Islamic Consultative Assembly on May 4, 1988, whereas

MR. IMAN MEHDIPOUR

Son of Ahmad, holder of ID Card No. 4615, issued at Tehran, born in 1985, has successfully completed the curriculum of the

Bachelor's Degree in the field of
Civil Engineering – Civil (full time)

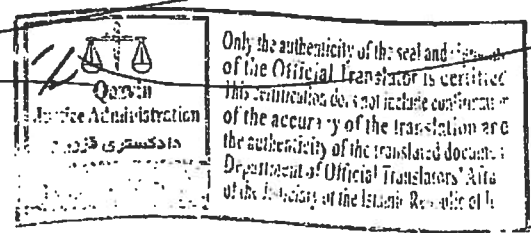
By passing 143 credits and achieving an overall average of 18.26 (eighteen point twenty six) in July 22, 2009 in the Islamic Azad University – Ghazvin Branch, this diploma is awarded to him.
Serial No.: 1265684

SIGNED:

PRESIDENT OF THE BRANCH, Dr. M. Moosakhani
PRESIDENT OF ISLAMIC AZAD UNIVERSITY, Dr. A. Jasbi

True Translation Certified/ Aug. 20, 2011/ Mehdipour Diploma

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شماره ۸۱۳۵۲۲ سری

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جمهوری اسلامی ایران

اداره مترجمین رسمی

دارالترجمة رسمی شماره ۳
نیلاوفر الفت شایان، مترجم رسمی زبان انگلیسی قوه قضائیه
ج. ۱. ایران. شماره پروانه: ۹۴۳
آدرس: قزوین، فردوسی شمالی، جنب رنگ فروشی جمالی
تلفن: ۱۵۷ - ۳۴۰۳۰۳
NILUFAR OLFAT-SHAYAN, official English
Translator to the Justice

OFFICIAL TRANSLATION FROM PERSIAN
Ghazvin Islamic Azad University
Student Grades Transcript

No.: 08-25-6/306708
Date: July 18, 2011

This is to certify that **MR. IMAN MEHDIPOUR**, Son of Ahmad, holder of ID card No. 4615, issued at Tehran, born in 1985, has graduated in July 22, 2009, Bachelor's Degree – Continues curriculum in the field of Civil Engineering (Civil) – Full Time.

G=General P=Principal S= Special O=Ordinary B= Basic Pre uni=pre university

Semester	Course Title	Type of subject	Theoretical practical	Score	point
1 st 2004-2005	General Mathematics (1)	B	3/0	17	51
1 st 2004-2005	Foreign Language-English	G	3/0	18	54
1 st 2004-2005	General Persian	G	3/0	15	45
1 st 2004-2005	Technical Drawing & Building Mapping	P	1/1	16	32
1 st 2004-2005	Physics (1)	B	3/0	16.5	49.5
2 nd 2004-2005	Koran	G	1/0	20	20
2 nd 2004-2005	General Mathematics (2)	B	3/0	19	57
2 nd 2004-2005	Static	P	3/0	18.75	56.25
2 nd 2004-2005	Imam's Testament	G	1/0	18	18
2 nd 2004-2005	History of Islam	G	2/0	0	0
2 nd 2004-2005	Differential Equations	B	3/0	19	57
2 nd 2004-2005	Islamic Culture (1)	G	2/0	18	36
2 nd 2004-2005	Engineering Geology	P	2/0	18.25	36.5
2 nd 2004-2005	Physics (2)	B	3/0	19.5	58.5
1 st 2005-2006	Islamic revolution & its Roots	G	2/0	20	40
1 st 2005-2006	Dynamic	P	3/0	20	60
1 st 2005-2006	Computer Programming	B	3/0	15	45
1 st 2005-2006	Strength of Materials (1)	P	3/0	19.5	58.5
1 st 2005-2006	Engineering Statistic & Probabilities	B	2/0	19	38
1 st 2005-2006	History of Islam	G	2/0	20	40
1 st 2005-2006	Islamic Culture (2)	G	2/0	20	40
1 st 2005-2006	Material Building and Lab.	P	1.5/0.5	19.25	38.5
1 st 2005-2006	Surveying & Operations (1)	P	1/1	17	34
1 st 2005-2006	Principals & Fundamentals of Architecture &urban Development	P	2/0	16.25	32.5
2 nd 2005-2006	Numerical Calculations	B	2/0	18	36
2 nd 2005-2006	Economic Engineering	B	2/0	19	38
2 nd 2005-2006	Strength of Materials (2)	S	3/0	19	57
2 nd 2005-2006	Soil Mechanics	P	3/0	20	60
2 nd 2005-2006	Fluid Mechanics	P	3/0	20	60
2 nd 2005-2006	Concrete Technology and Lab.	P	1/1	16.5	33
2 nd 2005-2006	Islamic Ethics and Instructions	G	2/0	17.5	35
2 nd 2005-2006	Structure Analysis (1)	S	3/0	18	54
3 rd 2005-2006	Structure Analysis (2)	S	3/0	-	0
3 rd 2005-2006	Engineering Hydrology	P	2/0	-	0
1 st 2006-2007	Steel Structures (1)	S	3/0	19	57
1 st 2006-2007	Loading	O	1/0	-	0
1 st 2006-2007	Structure Machinery	S	2/0	19	39

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شماره ۸۱۳۵۲۲ سری

ردیف دفتر ثبت

جمهوری اسلامی ایران
توقه قضائیه - اداره مترجمین رسمی

دفتر ترجمه رسمی شماره ۳
مترجم رسمی زبان انگلیسی قوه قضائیه
ج. ا. ایران - شماره پروانه: ۹۴۳
آدرس: قزوین - اردوباد - خیابان ولیعصر - پلاک ۳۳۳ - ۱۵۲
تلفن: ۳۳۳۳۳۳۳۳
MILFAR OLFAT SHAYAN, official English
Translator to the Justice Administration

1 st 2006-2007	Highway Engineering	S	2/0	20	40
1 st 2006-2007	Engineering Hydrology	P	2/0	20	40
1 st 2006-2007	Reinforced Concrete Structures (1)	S	3/0	17.25	51.75
1 st 2006-2007	Hydraulics & Lab.	P	2/1	19.25	57.75
1 st 2006-2007	Structure Analysis (2)	S	3/0	15	45
2 nd 2006-2007	Principles of Dam Engineering	O	2/0	18	36
2 nd 2006-2007	Technical Language- English	O	2/0	17.5	35
2 nd 2006-2007	Strength of Materials Lab.	P	0/1	20	20
2 nd 2006-2007	Soil Mechanics Lab.	P	0/1	20	20
2 nd 2006-2007	Pavement Engineering	S	2/0	20	40
2 nd 2006-2007	Steel Structures (2)	S	2/0	17.5	35
2 nd 2006-2007	Reinforced Concrete Structures (2)	S	3/0	16	48
2 nd 2006-2007	Foundation engineering	S	3/0	15	45
2 nd 2006-2007	Principles of Earthquake Engineering	S	3/0	19	57
1 st 2007-2008	Islamic Text	G	2/0	-	0
1 st 2007-2008	Hydraulic structures	S	3/0	18	54
1 st 2007-2008	Transportation Engineering	S	2/0	19	38
1 st 2007-2008	Physical Education (1)	G	0/1	18	18
1 st 2007-2008	Loading	O	1/0	-	0
1 st 2007-2008	Physics Lab. (1)	B	0/1	20	20
1 st 2007-2008	Metric & Evaluating of Project	S	0.5/0.5	20	20
1 st 2007-2008	Installations of Mechanical and Electrical	O	2/0	-	0
2 nd 2007-2008	Koran , subject comment	G	2/0	17.5	35
2 nd 2007-2008	Application of Computer in Civil Engineering	O	2/0	18	36
2 nd 2007-2008	Mechanical & Electrical Installations	O	2/0	17.25	34.5
2 nd 2007-2008	Principles of Bridge Engineering	O	2/0	19	38
2 nd 2007-2008	Masonry Structures	O	2/0	19	38
2 nd 2007-2008	Physical Education (2)	G	0/1	17.25	17.25
2 nd 2007-2008	Principles of Traffic Engineering	S	2/0	0	0
2 nd 2007-2008	Building Executing Methods	S	1/1	17	34
2 nd 2007-2008	Roadway project	S	0/1	18	18
2 nd 2007-2008	Building Retrofitting	O	2/0	20	40
2 nd 2007-2008	Family Planning	G	1/0	0	0
2 nd 2007-2008	Steel Structures Project	S	0/1	19	19
1 st 2008-2009	Leave	-	-	-	-
2 nd 2007-2008	Family Planning	G	1/0	16	16
2 nd 2007-2008	Principles of Traffic Engineering	S	2/0	19	38
2 nd 2007-2008	Reinforced Concrete project	S	0/1	20	20
2 nd 2007-2008	Training	P	0/2	20	40

Total Passed Credits: 143

Overall Average: 18.26

According to the university education system, every theoretical, practical, and workshop course is instructed in 16, 32, and 48 hours, respectively.

Points are ranged from zero to 20 and the minimum point to pass courses in associate, bachelor, intermittent post-graduate, and doctoral programs are 10, 10, 12, and 14, respectively.

The transcript and the number of and is valid without blemish and scratch has been registered in the alumna book under No. 90013242 on July 31, 2011.

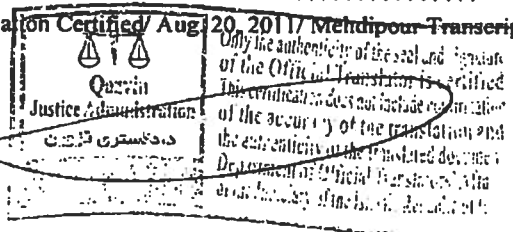
SIGNED & SEALED:

STUDENT DEPUTY OF THE BRANCH: Dr. S. H. Mir Shojaei

PRESIDENT OF THE GHAZVIN BRANCH: Dr. M. Moosakhani

DIRECTOR GENERAL OF ALUMNI OFFICE OF UNIVERSITY: Dr. Alireza Samet

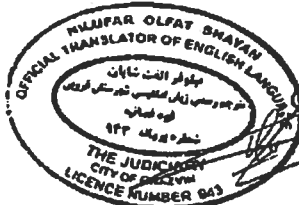
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