

First page: M.Sc., Computer Engineering: AI and Robotics, University of Tehran

Second page: M.Sc., Data Science and Engineering, Politecnico di Torino

Third page: Minor in Computer Engineering, University of Tehran

Fourth page: M.Sc., Mechanical Engineering, University of Tehran

## Notes:

**University of Tehran M.Sc. Thesis Title:** Risk Sensitivity and Cumulative Prospect Theory in Multi-Agent Reinforcement Learning and Markov Games

**University of Tehran M.Sc. Course Descriptions:**

Special Topics in Control Engineering 1: Reinforcement and Interactive Learning

Special Topics in Control Engineering 3: Distributed Optimization and Learning

**In The Name Of God**  
University of Tehran  
Transcript of University Grades



**Student No :** 810199239

**First Name :** Hafez

**Last Name :** Ghaemi

**SSNO :** 0020922639

**Date of Birth :** 1998/03/08

**Faculty :** College of Engineering

**Major :** Computer Engineering  
Artificial Intelligence and  
Robotics

**Total Passed Units :** 12

**GPA :** 18.50

**Level :** Master



<b>Academic Year 2020-2021 1st. Semester</b> <b>Semester Status :</b> Normal					<b>Academic Year 2020-2021 2nd. Semester</b> <b>Semester Status :</b> Normal				
<b>Course Title</b>	<b>Credit</b>	<b>Grade</b>	<b>Effect</b>		<b>Course Title</b>	<b>Credit</b>	<b>Grade</b>	<b>Effect</b>	
Machine Learning	3	20			Seminar	2	IC	3	
Special Topics in Control Engineering 1	3	20			Special Topics 2	3	ED	3	
					Principles of cognitive science	3	19		
<b>Semester GPA</b>	<b>Registered Unit(s)</b>	<b>Semester Passed Unit(s)</b>	<b>Total Passed Unit(s)</b>	<b>Cumulative GPA</b>	<b>Semester GPA</b>	<b>Registered Unit(s)</b>	<b>Semester Passed Unit(s)</b>	<b>Total Passed Unit(s)</b>	<b>Cumulative GPA</b>
20.00	6	6	6	20.00	19.00	8	3	9	19.67
<b>Academic Year 2021-2022 1st. Semester</b> <b>Semester Status :</b> Normal					<b>Academic Year 2021-2022 2nd. Semester</b> <b>Semester Status :</b> Planned Education Leave				
<b>Course Title</b>	<b>Credit</b>	<b>Grade</b>	<b>Effect</b>		<b>Course Title</b>	<b>Credit</b>	<b>Grade</b>	<b>Effect</b>	
Seminar	2	IC	3						
Neural Networks	3	ED	3						
Social Network	3	15							
<b>Semester GPA</b>	<b>Registered Unit(s)</b>	<b>Semester Passed Unit(s)</b>	<b>Total Passed Unit(s)</b>	<b>Cumulative GPA</b>	<b>Semester GPA</b>	<b>Registered Unit(s)</b>	<b>Semester Passed Unit(s)</b>	<b>Total Passed Unit(s)</b>	<b>Cumulative GPA</b>
15.00	6	3	12	18.50		0	0	12	18.50
<b>Academic Year 2022-2023 1st. Semester</b> <b>Semester Status :</b> Normal					<b>Academic Status</b>  <b>Full mark is 20</b> <b>Last Status :</b> Normal				
<b>Course Title</b>	<b>Credit</b>	<b>Grade</b>	<b>Effect</b>						
Seminar	2	IC	3						
Neural Networks	3	NR	3						
Special Topics in Control Engineering 3	3	NR	3						
Thesis	6	IC	3						
<b>Semester GPA</b>	<b>Registered Unit(s)</b>	<b>Semester Passed Unit(s)</b>	<b>Total Passed Unit(s)</b>	<b>Cumulative GPA</b>					
	12	0	12	18.50					

**NOTE:**

In "Effect" column:

"1", Indicates that the total passed unit(s) is not affected by this course.

"2", Indicates that the cumulative gpa is not affected by this course.

"3", Indicates that the total passed unit(s) and cumulative gpa are not affected by this course.

In "Grade" column the following abbreviations are used:

**NR** Not Reported  
**R** Reported  
**IC** Incomplete  
**ED** Emergency Drop

**GENERAL DIRECTOR OF ACADEMIC AFFAIRS**  
**Mohammad Mirehei Ph.D**

signed and sealed



Politecnico  
di Torino  
Area Gestione Didattica

prot. n. 202251940

IT IS HEREBY CERTIFIED THAT



Student ID 289963  
Surname Name GHAEI HAFEZ  
Place of Birth TEHRAN (IRAN)  
Date of Birth 08/03/1998  
Fiscal Code GHMHFZ98C08Z224X

Graduated on 29/07/2022 in

Laurea Magistrale (Master of science-level) in  
DATA SCIENCE AND ENGINEERING  
COMPUTER SYSTEMS ENGINEERING DEGREE CLASS (LM-32)

He graduated with the following grade: 103/110.

The study plan is made up of the following examinations:

Code	Description	Grade	Date	Credits	SSD
YEAR: 1					
01OXGLZ	Italian language 2nd level	passed	29/06/2022 <sup>(8)</sup>	6	L-FIL-LET/12
01TUYSM	Distributed architectures for big data processing and analytics	27/30	21/06/2021	8	ING-INF/05
01TWYSM	Computational linear algebra for large scale problems	28/30	14/06/2021	2	MAT/03
-	-	-	-	6	MAT/08
01TWZSM	Data science lab: process and methods	22/30	25/01/2021	8	ING-INF/05
01TXASM	Data management and visualization	26/30	17/06/2021	8	ING-INF/05
01TXESM	Information Theory and Applications	21/30	19/02/2021	8	ING-INF/03
01TXFSM	Machine learning and Deep learning	26/30	20/07/2021	10	ING-INF/05
01TXGSM	Mathematics in Machine Learning	29/30	12/07/2021	4	MAT/03
-	-	-	-	4	SECS-S/01
01URZSM	Data Ethics and Data Protection	22/30	09/07/2021	3	ING-INF/05
-	-	-	-	3	IUS/01
YEAR: 2					
01OVFOV	Bioinformatics	22/30	04/07/2022	6	ING-INF/05
01TXISM	Innovation management	26/30	24/01/2022	3	ING-IND/16
-	-	-	-	3	ING-IND/35
01TXLSM	Network Dynamics and Learning	30/30	02/02/2022	8	MAT/05
01URROV	Computational intelligence	30/30	28/01/2022	6	ING-INF/05
01VIXSM	Deep natural language processing	30/30	11/02/2022	8	ING-INF/05
17MBRSM	Thesis	passed	29/07/2022	22	*** N/A ***

(8) Exam in overload

Grades distribution [% cumulative]: 30,[12,62], 30[29,67], 29[40,21], 28[51,57], 27[61,38], 26[70,13], 25[76,97], 24[82,89], 23[86,91], 22[90,4], 21[93,24], 20[95,51], 19[97,28], 18[100]

Final project:

Decentralized Value-Based Reinforcement Learning in Stochastic Potential Games

The course was held in the following languages: 100% English.

a copy of this document, for verification, is available at the url  
<http://ad.polito.it/Univ/1/0-verify/pdf/pdf.html?uri=K26GYT97yd>



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Politecnico  
di Torino  
Area Gestione Didattica

prot. n. 202251940

He enrolled for the first time in the abovementioned course on 15/10/2020.

The student has been enrolled in the following academic years:

A.Y.	University	Type of enrollment	Course
2020/2021	POLITECNICO DI TORINO	FULL-TIME	Corso di Laurea Magistrale in DATA SCIENCE AND ENGINEERING (LM-32)
2021/2022	POLITECNICO DI TORINO	FULL-TIME	Corso di Laurea Magistrale in DATA SCIENCE AND ENGINEERING (LM-32)

The standard duration of the abovementioned degree course was 2 years.

Torino, 07/10/2022

The Officer in charge

(Luigi Basso)



In compliance with the Italian Laws (D.P.R. 445/2000, art. 40), this certificate is issued only for abroad.

a copy of this document, for verification, is available at the url  
<http://ad.polito.it/Univ/1/0-verify/pdf/pdf.html?uri=K26GYT97yd>



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School of Electrical and Computer Eng.  
College of Engineering



University of Tehran

Date: October 8, 2020

Subject: Certificate of Enrollment for the Minor in Computer Engineering

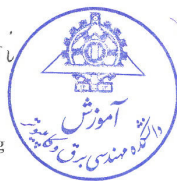
This is to certify that Mr. **Hafez Ghaemi** with student ID. **810695285** has enrolled for the minor in Computer Engineering in the 2<sup>nd</sup> semester of 2018-2019 and has successfully passed the following courses from the program:

COURSE TITLE	CREDIT	GRADE
INTRODUCTION TO COMPUTERS AND PROGRAMMING	3	20
DISCRETE MATHEMATICS	3	12.9
ADVANCED PROGRAMMING	3	16
COMPUTER ARCHITECTURE	3	16.4
ARTIFICIAL INTELLIGENCE	3	18.5
DATA STRUCTURES	3	12.5

The official certificate will be issued upon completion of the minor in Computer Engineering program requirements.

Saeed Safari

Saeed Safari



Vice Dean for Undergraduate Studies  
School of Electrical and Computer Engineering  
University of Tehran

School of Electrical and Computer Eng.  
College of Engineering  
University of Tehran  
Tehran, Iran  
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http://ece.ut.ac.ir  
e-mail: ecechair@ut.ac.ir

بسمه تعالی

شماره: ۰۰۱۰۰۹۵

تاریخ: ۱۳۹۹/۱۰/۱۳

Date: 2021-01-02

### گواهی پایان دوره کهاد

گواهی می شود

آقای حافظ قائمی دارای کدملی ۰۰۲۰۹۲۲۶۳۹ دوره کهاد مهندسی کامپیوتر را به ارزش ۱۹ واحد در تاریخ ۱۳۹۹/۰۴/۳۱ در پردیس دانشکده‌های فنی دانشگاه تهران با موفقیت به پایان رسانده است.

This is to certify that:

Mr. **Hafez Ghaemi**, holder of National ID 0020922639, has successfully completed all requirements of the **Undergraduate Minor Program in Computer Engineering** on 2020-07-21 by completing 19 semester credit hours of coursework.

دکتر سیامک حاجی یخچالی

مدیر دفتر آموزش‌های آرای دانشگاه تهران

Dr. Siamak Haji-Yakhchali

Chair of Professional Education Center  
University of Tehran

دکتر ناصر سلطانی

رئیس پردیس دانشکده‌های فنی دانشگاه تهران

Prof. Nasser Soltani

Dean of College Engineering  
University of Tehran



In The Name Of God  
University of Tehran  
Transcript of University Grades



Student No. : 810695285  
First Name : Hafez  
Last Name : Ghaemi  
ID.No. : 0020922639  
Date of Birth : 1998/03/08

Faculty : College of Engineering  
Major : Mechanical Engineering  
Total Passed Units : 143  
GPA : 16.24  
Level : Bachelor  
Graduate Date : 2020/09/21



Workshop Titles: Workshop on life Skills Training and Prevention of Psychosocial Harm 1 in date 1395/11/30 - Workshop on Life Skills Training and Prevention of Psychosocial Harm 2 in date 1396/11/04

Academic Year 2016-2017 1st. Semester						Academic Year 2016-2017 2nd. Semester					
Semester Status : Normal						Semester Status : Normal					
Course Title	Credit	Grade	Effect			Course Title	Credit	Grade	Effect		
Physics Laboratory 1	1	15				Statics	3	11.14			
Persian Language	3	20				English Language	3	18.5			
Physics 1	3	13.6				Differential Equations	3	10.25			
Calculus 1	3	16.5				Physics 2	3	11.08			
Islamic Thought 1 (Beginning and Resurrection)	2	20				Calculus 2	3	15.1			
Analytical History of Beginning Islam	2	20				Islamic Revolution in Iran	2	18			
Family Schematization and Population	2	19				Thematic Interpretation of the Quran	2	20			
Fundamentals of Computer and Programming	2	18									
Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA		Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA	
17.74	18	18	18	17.74		14.43	19	19	37	16.04	
Academic Year 2017-2018 1st. Semester						Academic Year 2017-2018 2nd. Semester					
Semester Status : Normal						Semester Status : Normal					
Course Title	Credit	Grade	Effect			Course Title	Credit	Grade	Effect		
Dynamics	4	14				Strength of Materials Laboratory 2	1	14.8			
Machine Tool Workshop	1	18				Fundamentals of Mechanical Engineering	1	16.8			
Strength of Materials 1	3	10.5				Thermodynamics 1	3	13.5			
Engineering Mathematics	3	17.25				Materials Science	3	20			
Numerical Computation	2	20				Welding and Metal Forming Workshop	1	16			
Islamic Thought 2 (Prophethood and Imamata)	2	20				Strength of Materials 2	2	14.5			
Islamic Ethics (Principles and Concepts)	2	20				Fluid Mechanics 1	3	14			
Physical Chemistry	3	20				Physics Laboratory 2	1	19			
						Industrial Drawing 1	2	19			
						Engineering Probability	2	12.25			
						Physical Education	1	20			
Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA		Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA	
16.86	20	20	57	16.33		16.03	20	20	77	16.25	
Academic Year 2018-2019 1st. Semester						Academic Year 2018-2019 2nd. Semester					
Semester Status : Normal						Semester Status : Normal					
Course Title	Credit	Grade	Effect			Course Title	Credit	Grade	Effect		
Mechanical Vibrations	3	13.9				Thermodynamics Laboratory 2	1	17.4			
Fluid Mechanics Laboratory 2	1	15.2				Principles of Electronic	3	16.3			
Circuit and Electric Machines	3	18.73				Dynamics of Machinery	3	15.7			
Heat Transfer 1	3	15.5				Manufacturing Processes and Workshop	3	18			
Thermodynamics 2	3	16.75				Applied Finite Element Method	3	16.2			
Design of Machine Elements 1	3	17				Design of Machine Elements 2	3	16.45			
Fluid Mechanics 2	3	15				Automatic Control	3	13.5			
Technical Writing	1	19.1				Sport 1	1	20			
Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA		Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA	
16.25	20	20	97	16.25		16.29	20	20	117	16.26	

*Ali Taheri mirghaed*

In The Name Of God  
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Academic Year 2018-2019 Summer Semester						Academic Year 2019-2020 1st. Semester					
Semester Status : Normal						Semester Status : Normal					
Course Title	Credit	Grade	Effect			Course Title	Credit	Grade	Effect		
Training 1	1	18	3			Systems Analysis	3	12.2			
						Dynamics and Vibrations Laboratory	1	17.5			
						Engineering Economics	2	15.25			
						Automechanics Workshop	1	18			
						Senior Design Project	3	1C	3		
						Optimization of Mechanical Systems	3	16.92			
Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA		Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA	
0	0	0	117	16.26		15.34	13	10	127	16.19	
Academic Year 2019-2020 2nd. Semester						Academic Year 2019-2020 Summer Semester					
Semester Status : Normal						Semester Status : Normal					
Course Title	Credit	Grade	Effect			Course Title	Credit	Grade	Effect		
Game Theory	3	17.5				Training 2	1	18	3		
Electrical and Electronics Laboratory	1	20									
Senior Design Project	3	17.5									
Computational Fluid Dynamics	3	14.5									
Product Design and Development	3	15.25									
Measurement Systems and Instrumentation	3	17.5									
Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA		Semester GPA	Registered Units	Semester Passed Units	Total Passed Units	Cumulative GPA	
16.67	16	16	143	16.24		0	0	0	143	16.24	
Academic Status						NOTE:					
Full mark is 20						In "Effect" column:					
Last Status : Graduate Date : 2020/09/21						"1", Indicates that the total passed units is not affected by this course.					
						"2", Indicates that the cumulative gpa is not affected by this course.					
						"3", Indicates that the total passed units and cumulative gpa are not affected by this course.					
						In "Grade" column the following abbreviations are used:					
						R Reported					
						IC Incomplete					

GENERAL DIRECTOR OF ACADEMIC AFFAIRS  
ALI TAHERI MIRGHAED Ph.D

*Ali Taheri mirghaed*



Date : 2021/01/06

NOT VALID WITHOUT SIGNATURE AND SEAL OF REGISTER