

CURRICULUM VITAE

Sahar Noori
Assistant Professor

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EDUCATION:

- 2002 - 2007: Amirkabir University of Technology, Tehran, Iran – PhD, Aerospace Engineering.
Thesis title : "The Solution of Three-Dimensional Viscous Shock Layer Equations along the Streamlines"
- 1999-2001 : Amirkabir University of Technology, Tehran, Iran - M.Sc. Aerospace Engineering.
Thesis title: "The Solution of Viscous Flow in Using Moving Grid"
- 1995-1999: Amirkabir University of Technology, Tehran, Iran - B.Sc., Aerospace Engineering.
Thesis title: "The Calculation of Pressure and Velocity Distribution on Ogive Nose in Hypersonic Flow"

Work Experience

2000-2001: Participating in “Airframe and power courses” (A&P), Civil Aviation Technology College.

2000- 2008: The manager and teacher of “AUT’s Workshop of Airplane’s Wing, Fuselage and Engines”, Dept. of Aerospace Eng., Amirkabir University of Technology.

2000: Setting up “Jet Engine” at AUT’s Workshop of Airplane’s Wing, Fuselage and Engines, Dept. of Aerospace Eng., Amirkabir University of Technology.

2001: Setting up “Riveting” section at AUT’s Workshop of Airplane’s Wing, Fuselage and Engines, Dept. of Aerospace Eng., Amirkabir University of Technology.

2001: Developing a system to simulate the movement of landing gear in airplane, Dept. of Aerospace Eng., Amirkabir University of Technology.

2002: Preparation of a Jet engine (J-47) for students' training, Dept. of Aerospace Eng., Amirkabir University of Technology.

2006: Piston engine start up preparation, Dept. of Aerospace Eng., Amirkabir University of Technology.

2006: Participated in workshop of Hypersonic Wind Tunnel, Von Karman Institute, Belgium.

Since 2006: Member of IAS (Iranian Aerospace Society)

2010-2011: Project manager of "The improvement of the first shape of an approximating produced aerospoke nozzle", Aerospace Research Institute.

2010-2013: Faculty member of Aerospace Research Institute.

2010-2013: The Manager of Research and Technology, Aerospace Research Institute.

Since 2013: Assistant Professor, Dept. of Aerospace Eng., Amirkabir University of Technology.

2014-2016: Deputy for Computer Site, Dept. of Aerospace Eng., Amirkabir University of Technology.

2016-2017: Deputy for Student, Dept. of Aerospace Eng., Amirkabir University of Technology.

2017: Head of Aerodynamic and Propulsion group, Dept. of Aerospace Eng., Amirkabir University of Technology.

Teaching Experience:

2007-2009: Teaching graduate courses of Hypersonic Aerodynamics, Computational Fluid Dynamics, Dept. of New Technologies and Energy Engineering, Shahid Beheshti University.

2007-2009: Teaching undergraduate course of FORTRAN Programming, Dept. of Aerospace Eng., Amirkabir University of Technology

2010-2013: Teaching graduate courses of Hypersonic Aerodynamics, Computational Fluid Dynamics, Aerospace Research Institute.

Since 2013: Teaching undergraduate courses of Introduction to CFD, Statics, Aerodynamics II, and graduate courses of Radiation Heat Transfer, Hypersonic Aerodynamics, Advanced Mathematics, Dept. of Aerospace Eng., Amirkabir University of Technology.

Undergraduate level:

- Introduction to CFD
- Statics
- Aerodynamics II
- FORTRAN Programming

Post-graduate level:

- Radiation Heat Transfer
- Hypersonic Aerodynamics
- Advanced Mathematics
- Computational Fluid Dynamics

Research Interests

- Wind Renewable Energy;
- Inverse Thermal Analysis,
- Radiation Heat Transfer;
- Thermal Ablation and Hypersonic Flow;
- Thermal Protection Systems;
- Aerodynamic Heating;
- Aerodynamics of Re- Entry Vehicles;
- Computational Fluid Dynamics and Heat Transfer;
- Internal and external flow simulations

PUBLICATIONS

• Selected Journal Papers

1. V. Tahmasebi and **S. Noori**, “Inverse Identification of Temperature-Dependent Thermal Conductivity Coefficients in an Orthotropic Charring Composite”, *APPLIED THERMAL ENGINEERING*, 2020.
2. P. Sepahvand, **S. Noori** and G.Abdizadeh “Inverse design of an irregular-shaped radiant furnace using neural network and a modified hybrid optimization algorithm”, *Thermal Science and Engineering Progress*, 2020.
3. V. Tahmasebi and **S. Noori**, “Multidimensional Numerical Analysis of the Thermal Behavior and Pyrolysis Gas Flow Inside an Orthotropic Porous Material”, *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*, Vol. 142, No. 6, pp.1-19, 2020.
4. M. Momenbellah-Fard and **S.Noori**, “Discrete ordinate and P1-based approximations of heater transparency on radiation-convection of four separate gases in factory setting”, *Building Simulation*, Vol. 13, pp. 647-663, 2020.
5. H. mansoori, **S. Noori** and S. Ghasemloo, “Aerodynamic Analysis of a Re-entry Capsule with Consideration of Radiation Heat Transfer”, *Aerospace Knowledge and Technology Journal*, Vol. 9, No. 1, 2020.
6. F. Pish, **S. Noori** and et al., “Viscous equilibrium analysis of heat transfer on blunted cone at hypersonic flow”, *Case Studies in thermal Engineering*, vol. 14, 2019.
7. V. Tahmasebi and **S. Noori**, “Extending Inverse Heat Conduction Method to Estimate Flight Trajectory of a Reentry Capsule”, *AUT Journal of Mechanical Engineering*, 2020.
8. V. Tahmasebi and **S. Noori**, “Application of Levenberg-Marquardt Method for Estimation of the Thermophysical Properties and Thermal Boundary Conditions of Decomposing Materials” , *HEAT TRANSFER ENGINEERING*, Vol. 41, No. 7, pp. 20-45, 2018.
9. S. Rezaii, **S. Noori** and S. Ghasemloo, “Numerical solution of ablative insulation and reducing its temperature using heat sink concept”, *Aerospace Knowledge and Technology Journal*, Vol. 7, No. 2, pp. 133-144, 2018.

10. F. Fasihi, S. Noori and M.Eidi Attarzadeh, "Investigation of radiative heat transfer effect on the SM1 flame structure with steady flamelet method", *Modares Mechanical Engineering*, Vol. 18, Issue 7, 2018.
11. A. Shahrokhi and **S. Noori**, "Favorable plug shape of an aerospike nozzle in design, over and under expansion conditions", *Journal of Computational and Applied Research in Mechanical Engineering(JC)*, Vol. 8, No. 1, 2018.
12. V. Tahmasebi and **S. Noori**, "Thermal Analysis of Honeycomb Sandwich Panels as Substrate of Ablative Heat Shield", *Journal of Thermophysics and Heat Transfer (AIAA)*, 2017.
13. **S. Noori** , S. Ghasemloo and M. Mani "Viscous Shock Layer Around Slender Bodies with Nonequilibrium Air Chemistry", *Iranian Journal of Science and Technology - Transactions of Mechanical Engineering*, 2016.
14. H. Shahverdi, V.Khalafi and **S. Noori**, "Aerothermoelastic Analysis of Functionally Graded Plates Using Generalized Differential Quadrature Method", *Latin American Journal of Solids and Structures*, Vol. 13, pp. 797-819, 2015.
15. S. Ghasemloo and **S. Noori** , "Approximate Viscous Shock Layer Analysis of Axisymmetric Bodies in Perfect Gas Hypersonic Flow", *Journal of Space Science & Technology*, Vol.7 No. 1,pp. 41-48,2014.
16. S.A. Hosseini and **S. Noori**, "Laminar and Turbulent Aero Heating Predictions over Blunt Body in Hypersonic Flow", *Journal of Space Science & Technology*, Vol.7, No. 1,pp. 33-40 , 2014.
17. R. Kamalimighadam, **S. Noori**, M.R. Salimi, M. Sheida and S.A.Hosseini, "Evaluate the approximate solution of boundary layer equations and Engineering approximate relations in Aerodynamic heating around axisymmetric bodies", *Journal of Space Science & Technology*, Vol.6 ,No. 3, pp. 39-48 , 2013.
18. H. Molavi, J. Rezapour,**S. Noori**, S. Ghasemloo and K. A. Aslani, "Novel gradient-based methods for heat flux retrieval",*International Journal of Numerical Methods for Heat & Fluid Flow*, Vol. 23 Iss: 3, pp.499 – 519, 2013.
19. **S. Noori**, S.A. Hosseini and M. Ebrahimi, "An Approximate Engineering Method for Aerodynamic Heating Solution around Blunt", *World Academy of Science, Engineering and Technology*, Vol. 70, No. 70, pp.831 – 835, 2012.
20. **S. Noori** and A. Shahrokhi, "Flow Field Characteristics of an Aerospike Nozzle Using Different Turbulence Models", *JAST*, Vol. 8, No. 2, 2012.
21. **S. Noori**,F. Mahdavi and S.M.H. Karimian,"Two Dimensional Simulation of Laminar Flow Around a Couple of Bodies in Relative Motion",*Int. J Advanced Design and Manufacturin& Technology*,Vol. 5, No. 3, 2012.
22. **S. Noori** and A. Shahrokhi, "The influence of Different Turbulence Models on the Flow Field Characteristics of an Aerospike Nozzle", *Applied mechanics and materials*, Vol. 110-116.
23. H. Molavi, A. H. Fard, M. Molavi, R. Rahmani, A. Ayasoufians and **S. Noori**,"Estimation of Boundray Conditions in the Presence of Unknown Moving Boundary Caused by Ablation", *International Journal of Heat and Mass Transfer*, Vol. 54, Issues 5-6, pp. 1030-1038, 2011.
24. **S. Noori**, S. Ghasemloo and M. Mani, "A New Method for Solution of Viscous Shock-Layer Equations", *International Journal of Aerospace Engineering*, Vol. 24, No. 6, 2010.

25. **S. Noori**, S.M.H. Karimian and M. MalekzadehDirin, “ Numerical Solution of Three-Dimensional Viscous Shock Layer Using Axisymmetric Analog along the Streamlines ”, International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 18, No. 1, 2008.
26. **S. Noori** and S.M.H. Karimian, “ Using Axisymmetric Analog along the Streamlines for the Solution of Three-Dimensional Viscous Shock Layer Equations of Hypersonic Equilibrium Flow ”,International Journal of Computational Fluid Dynamics, Vol. 22, No. 6, 2008.

• Selected Conference Papers

1. A.H. Omidvar, S. Noori and G. Abdizadeh, “ Numerical Investigation of the Dynamic Stall at Low-Reynolds Number Flow over a S1210 Pitching Airfoil”, 18th International Conference of Iranian Aerospace Society, Tehran, Iran, 2020.
2. Z. Zavarian and **S. Noori**, “Aerodynamic Optimization of Blunt Body Using Neural Network Coupling GA-SQP Combination Algorithm” , 18th International Conference of Iranian Aerospace Society, Tehran, Iran, 2020.
3. M. Tadjfar, Saman Kasmaiee, and **S. Noori**, “CONTINUOUS BLOWING JET FLOW CONTROL OPTIMIZATION IN DYNAMIC STALL OF NACA0012 AIRFOIL”, Proceedings of the ASME 2020 Fluids Engineering Division Summer Meeting, FEDSM2020July 12-16, Orlando, Florida, USA, 2020.
4. M. Tadjfar, Siroos Kasmaiee, and **S. Noori**, “OPTIMIZATION OF NACA 0012 AIRFOIL PERFORMANCE IN DYNAMICS STALL USING CONTINUES SUCTION JET”, Proceedings of the ASME 2020 Fluids Engineering Division Summer Meeting, FEDSM2020July 12-16, Orlando, Florida, USA, 2020.
5. M. Gharakhanloo, F. Pish and S. Noori, “Effects of Configuration of Solar Chimney Power Plant(SCpp) System on its Performance”, International conference on renewable energies and distributed generation, Tehran, Iran, 2019.
6. R. Keyvanpoor, **S. Noori** and V. Tahmasbi, “Numerical simulation of carbon - carbon ablative materials for analysis of thermal response to aerodynamic heating”, 17th International Conference of Iranian Aerospace Society, Tehran, Iran, 2018.
7. H. Soltanieh, S. Noori and et.al , “Aerodynamic and economical design and analysis of horizontal axis wind turbine” , 5th Iran Wind Energy Conference, Tehran, Iran, 2017.
8. S. Rezaei, **S. Noori** and V. Tahmasbi, “Numerical solution of graffiti heat shield and the effect of Mach number on it ”, 16th conference of Iranian aerospace society, Tehran, Iran, 2017.
9. F. Fasihi, **S. Noori** and M. Atarzadeh, “Study Of Jet Velocity Effect On SM1 Flame Configuration With Steady Flamelet”, 16th conference of Iranian aerospace society, Tehran, Iran, 2017.
10. H. Mansoori and **S. Noori**, “Modeling of radiation heat transfer for a reentry capsule”, 2nd conference on modern achievement on aerospace , mechanic and related science, Tehran, Iran, 2016.

11. S. Rezaei, **S. Noori** and V. Tahmasbi, "Calculation of temperature and surface recession of ablating axisymmetric bodies ", 1st International Conference on New Research Achievements in Mechanics, Mechatronics & Biomechanics, Tehran, Iran , 2016.
12. M. Gharakhanloo, **S.Noori**, F. Ajali and M. Mani " Airfoil Selection of Fits Mission of an Blended Wing Body ", The 15th international conference of iranian aerospace society, Tehran, Iran, 2016.
13. F. Pish and **S. Noori**, "Calculating the rate of heat transfer in hypersonic flow with equilibrium gas effects", The 15th international conference of iranian aerospace society, Tehran, Iran, 2016.
14. H. Mansoori and **S. Noori**, "Aerodynamic analysis of Apollo spacecraft 4 during reentry ", 3rd National and First International Conference in applied research on Electrical, Mechanical and Mechatronics Engineering, Tehran, Iran, 2016.
15. **S. Noori** and N. Ranjbaran, "Numerical Investigation of Vertical Axis Wind Turbine with Twist Angle in Blades", Eleventh International Conference on CFD in the Minerals and Process Industries, CSIRO, Melbourne, Australia,2015.
16. N. Ranjbaran and **S. Noori**, "Numerical analysis of blade twist angle on vertical axis wind turbine", ISME 2015. Tehran, Iran , 2015.
17. N. Ranjbaran and **S. Noori**, "Improving performance of wind turbine using the twist angle of the fin ", 14th conference of Iranian aerospace society, Tehran, Iran , 2014.
18. N. Karimi and **S. Noori**, "Analysis of Unsteady Flow in cold of a two-stage space vehicle", 14th conference of Iranian aerospace society, Tehran, Iran , 2014.
19. M. Ebrahimi, **S. Noori** and F. Ajali, " Numerical analysis of turbulent and transient flow on the Onera M6 wing", 14th conference of Iranian aerospace society, Tehran, Iran , 2014.
20. S.A. Hosseini, **S. Noori** and M. Sheida, "Calculation of aerodynamic heating on three-dimensional bodies using engineering method ", 13th conference of iranian a erospace society , Tehran, Iran , 2014.
21. **S. Noori**, S.A. Hosseini, and M. Sheida, "Investigation of grid effect on aerodynamic heating calculation in the hypersonic regime using approximate engineering methods", HAC2012, Sharif University, 2012.
22. **S. Noori** and N. Karimi, "Aerodynamic analysis and flight simulation of space capsule separation using dynamic mesh" , HAC2012, Sharif University, 2012.
23. S.A. Hosseini, **S. Noori** and M. Ebrahimi , "Choose the best form of external components on the supersonic vehicle", Second National Conference on Mechanical Engineering, 2012.
24. S.A. Hosseini, **S. Noori** and M. Ebrahimi , "The analysis of the aerodynamic heating capsule and attached external components", ICMEAT2012, 2012.
25. **S. Noori** and S.Ghasemloo," The Development of a New Nonequilibrium Viscous Shock-Layer Technique for Computing Hypersonic Flow Around Blunt_Nosed Slender Bodies", 4th European Conference for Aerospace Sciences (EUCASS), Saint Petersburg, Russia, 4-8 July, 2011.
26. A. Shahrokhiand and **S. Noori**, "Flow Field Characteristics of an Aerospike Nozzle in Over-expansion and Under-expansion Conditions", 4th European Conference for Aerospace Sciences (EUCASS), Saint Petersburg, Russia, 4-8 July, 2011.

27. S.A. Hosseini, **S. Noori** and A. Toloei, “Approximate Solution of Inviscid Flow for Prediction of Flow characteristic around Re-entry Vehicles”, 5th International Conference on Recent Advances in Space Technologies ,2011.
28. S.Ghasemloo, **S. Noori**, V.Dashti and A. Toloei, “Approximate Viscous Shock-Layer Analysis of Axisymmetric bodies in Perfect gas hypersonic”, The 10th Iranian Aerospace Society Conference ,March. 1-3/2011 at Tarbiat Modares University, 2011.
29. S.A. Hosseini, **S. Noori** and A. Toloei, “Calculation of Aerodynamic Heating around Blunt Nose Body in Hypersonic Regime” ,The 10th Iranian Aerospace Society Conference ,March. 1-3/2011 at Tarbiat Modares University.
30. S.A. Hosseini, **S. Noori** and A. Toloei, “Approximate Solution for Aerodynamic Heating Around Blunt Body Reentry Vehicles” 13th Annual and 2nd International Fluid Dynamics Conference, Shiraz university,26-28 Oct. 2010.
31. S.A. Hosseini, **S. Noori** and A. Toloei, “An Engineering Method for Aerodynamic Heating Prediction of Reentry Vehicle” Physics of Liquid Matter:Modern Problem, Kyiv 2010.
32. S.A. Hosseini, **S. Noori** and A. Toloei, “Approximate Solution of Inviscid Flow around the blunt Nose body” is accepted for 13th Annual and 2nd International Fluid Dynamics Conference, Shiraz university,26-28 Oct. 2010.
33. A. Shahrokhi and **S. Noori**, “Survey of the Central Plug Shape of the Aerospike Nozzle in Design and Off-Design Situations” , 17th Australasian Fluid Mechanics Conference, Auckland, New zealand ,5-9 Dec. 2010.
34. **S. Noori** and A. Shahrokhi, “The Influence of different Turbulence Models on the FlowField Characteristics of an Aerospike Nozzle” International Conference on Mechanical and Aerospace Engineering, Kuala Lumpur, Malaysia, 26- 28 Nov. 2010.
35. F. Mahdavi, S.M.H. Karimian and **S. Noori**, “Two Dimensional Simulation of Laminar Flow around Two Bodies in Relative Motion”, Fifth European Conference on Computational Fluid Dynamics, Lisbon, Portugal, 14-17 June 2010.
36. F. Mahdavi, S.M.H. Karimian and **S. Noori**, “Two Dimensional Simulation of Turbulent Flow around Two Bodies in Relative Motion” , CICME10 , Tunisia, 22-25 April 2010.
37. F. Mahdavi, S.M.H. Karimian and **S. Noori**, “Numerical Solution of viscous Flow around Two Bodies in Relative Motion” , The 9th Iranian Aerospace Society Conference ,2009.
38. **S. Noori** and A. Toloei, “Axisymmetric Gas Injection for supersonic Blunt Body” ,5. Ankara International aerospace Conference, Ankara, Turkey, 17-19 August, 2009.
39. **S. Noori** and S.Ghasemloo, “A New Method for solution of Viscous Shock-Layer Equations”, 5. Ankara International Aerospace Conference, Ankara, Turkey, 17-19 August, 2009.
40. A. Toloei and **S.Noori**, “ Analytical and Numerical Solution of Inviscid Flow Injection around the Supersonic Blunt Body”, The 8th Iranian Aerospace Society Conference ,2008.
41. S.M.H. Karimian and **S. Noori**,“ A Discussion about the Difficulty of the Numerical Solution of 3DVSL Equations in the Leeward Region” , The 7thIranian Aerospace Society Conference, Sharif University, 2008.
42. **S. Noori** and S.M.H. Karimian,“ Three-Dimensional viscous Shock Layer Calculation of Hypersonic Equilibrium Flow Using Axisymmetric Analog along the Streamlines ” ICFD 2007 Cnference , England, Reading, 26-29 March, 2007.

43. **S. Noori** and S.M.H. Karimian, “Three-Dimensional Viscous Shock Layer Computation Using Axisymmetric Analog Along the Streamlines” 2nd European Conference for Aerospace Sciences (EUCASS), Brussels, Belgium, 1-6 July, 2007.
44. S. Ghasemloo, M. Mani and **S. Noori**, “Nonequilibrium Viscous Shock-Layer Technique for Hypersonic Blunt-Nosed Slender Bodies” 2nd European Conference for Aerospace Sciences (EUCASS), Brussels, Belgium, 1-6 July, 2007.
45. S.M.H. Karimian and **S. Noori**, “Application of a Moving Boundary Algorithm for the Simulation of Viscous Flow in SRMs”, 9th Asian Congress of Fluid Mechanics, 2002.
46. S.M.H. Karimian and **S. Noori**, “Application of Moving Boundary Algorithm for the Viscous Simulation of SMR International Ballistics”, 10th Annual Conference of the CFD Society of Canada, 2002.

Selected Supervised Thesis

1. Hasheminasab, S.M., “Identification and quantification of the noise reduction mechanism of wind turbine blade by means of serrated trailing edge”, Ph.D. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
2. Soltanieh, H. , “ Study the physics of invelox wind turbine and optimization by numerical method”, Ph.D. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
3. Abdizadeh, G.,’ Numerical modeling of porous media structures in high heat flux micro heat pipe”, Ph.D. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
4. Tahmasbi, V., “Inverse estimation of boundary condition and thermophysical properties of ablative heat shield”, Ph.D. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
5. Kasmaiee, Si., “optimization of airfoil performance in dynamics stall using suction controller”, M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
6. Kasmaiee, Sa., “optimization of blowing controller performance on dynamics stall”, M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
7. Varshavi, M.R., “Aerodynamic performance investigation on aerospace vehicle using waverider technology in hypersonic flows”, M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
8. Keyvanpoor, R., “Numerical investigation of flow control using plasma actuator to improve aerodynamic characteristics of an oscillating airfoil”, M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
9. Zavarian, Z., “Numerical Investigation Of The Effect Of Plasma Actuator On Improving The Oscillating Airfoil Performance Of Wind Turbine” M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.

10. Naseri, H., "Design and Create a heat pipe for L.E.O. Satellite", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
11. Asgari, G., "Building INVELOX wind turbine model and study on physics of flow in that experimentally", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
12. Barzegar, M., "A Study on Self-Start Capability and Power Generation of A Helical Vertical Axis Wind Turbine", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
13. Salavatifard, S., "Inverse estimation of Thermal conductivity for anisotropic composite by numerical analysis", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
14. Anvar, S.M.S., "Non-equilibrium flow around the re-entry body solution, Considering the effects of radiation", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
15. Sabet, F., "Experimental Study of The Inlet Flow Yaw Angle on The Performance of Horizontal Axis Wind Turbine", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
16. Jalalvand, M. "Numerical study on the performance of horizontal axis wind turbine with side wind", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
17. Khazaieli, H., "Solving inverse heat conduction problems using genetic algorithms and gradient methods", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
18. Fasihi, F., "Effect of The Radiation Heat Transfer On Gas Turbine Combustion Chamber", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
19. Hajsadeghi, M., "Optimization Airfoils for Transonic Compressors", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
20. Rezaei, S., "Numerical Analysis of Ablation of the Insulation Material on Axisymmetric Body Including the Effects of Shape Change", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
21. Mansoori, H., "Modeling of Radiation and Its Effects on the Heat Transfer of Re-entry Vehicle", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
22. Pish, F., "Numerical Solution of Equilibrium Flow for Re-entry Vehicle", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
23. Gharakhanloo, M., "Aerodynamic design and Analysis of Blended Wing Body Transport", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
24. Khalafi, V., "Aeroelastic Analysis of Functionally Graded Plates in Hypersonic Airflow under Thermal Load", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
25. Ebrahimi, M., "Wing Aerodynamic Design of Jet Transport", M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.

26. Ranjbaran, N., “Investigation of Effect of Twist Angle on Aerodynamic Performance on a Rotating Blade”, M.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
27. Bakhtiari, M., “ Effect of Geometric Parameters on Aerodynamics of Space Capsule ”, M.Sc. thesis, Aerospace Research Institute.
28. Karimi, N., “Aerodynamic Analysis and Flight Simulation of Launch Vehicle’s Separation ”, M.Sc. thesis, Aerospace Research Institute.
29. Dashti, V., “Approximate Solution of Viscous Flow and Aerodynamic Heating around the Blunt Bodies”. MSc thesis, Department of New Technologies and Energy Engineering, Shahid Beheshti University.
30. Hoseini, S.A. “The Solution of Hypersonic Inviscid Flow around the Axisymmetric Bodies” , MSc thesis, Department of New Technologies and Energy Engineering, Shahid Beheshti University.
31. Soltani, D., “An investigation on the effect of plasma actuators with metamaterial properties on flow behavior”, B.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
32. Ashraf Modares, M., “Experimental investigation of using plasma vortex generators as a virtual winglet” , B.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
33. Mosalanejad, M., “Experimental testing of DBD plasma actuator on oscillating airfoil to increase efficiency”, B.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
34. Akbari, A., “ Determination of roll damping coefficient for airship” , B.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
35. Kamalhedayat, A., “Estimation of unknown heat flux using inverse algorithm (Levenberg-Marquardt) ”, B.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
36. Zavarian, Z. “Aerodynamic Optimization of Blunt Body Using Neural Network Coupling GA-SQP Combination Algorithm”, B.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.
37. Omidvar, A.H., “ Numerical Investigation of the Dynamic Stall at Low-Reynolds Number Flow over a S1210 Pitching Airfoil” , B.Sc. thesis, Department of Aerospace Eng., Amirkabir University of Technology.