

Transcript of Records

Familiennamen/ Family Name:

Bashir

Vorname(n)/ First Name(s):

Alaa Ahmed Khidir

Geburtsdatum/ Date of Birth:

15. März 1992

15 March 1992

Geschlecht/ Gender:

weiblich

female

Geburtsort/ Place of Birth:

Al-Ain U.A.E

Matrikelnummer/ Student ID Number:

03709121

Studiengang/ Degree Program:

Computational Mechanics

Computational Mechanics

Akademischer Grad/ Academic Title:

Master of Science (M.Sc.)

Zeugnisdatum/ Certificate Date:

18. August 2021

18 August 2021

| | | |
|---|--|------------|
| Gesamtnote und -credits: Overall Grade and Credits: | 1,4 | 120 |
| Prädikat: Designation: | sehr gut bestanden passed with distinction | |

| Modul-ID Module ID | Modulbezeichnung Module Title | Note Grade | Credits Credits |
|--|---|----------------------|---------------------------|
| Master Thesis Master's Thesis | | | 30 |
| BV00MTCO | Master's Thesis Master's Thesis | 1,0 | 30 |
| Thema: Untersuchung des turbulenten Hufeisenwirbels in einem Brückenpfeilerkolk auf Grundlage von Daten einer Large-Eddy-Simulation Die Thesis wurde in englischer Sprache verfasst. Topic: Investigation of the Turbulent Horseshoe Vortex based on LES Data of Flow around a Scoured Bridge Pier The thesis was written in English. | | | |

| Modul-ID Module ID | Modulbezeichnung Module Title | Note Grade | Credits Credits | |
|--|---|---------------|--------------------|--|
| Prüfungsmodule Examination Modules | | | 90 | |
| Pflichtbereich Degree Requirements | | | 36 | |
| BGU44013T2 | Computergestützte Berechnungsverfahren in den Ingenieurwissenschaften I Computation in Engineering I | 1,7 | 6 | |
| BGU41021 | Advanced Fluid Mechanics Advanced Fluid Mechanics | 1,7 | 6 | |
| BV320016 | Finite Elemente Methode 1 Finite Element Method 1 | 2,7 | 6 | |
| BV330009 | Computational Material Modeling 1 Computational Material Modeling 1 | 2,0 | 6 | |
| BV020001 | Kontinuumsmechanik Continuum Mechanics | 1,7 | 6 | |
| BV030004 | Software Lab Software Lab | 1,3 | 6 | |
| Wahlpflichtbereich Required Electives | | | 24 | |
| Wahlpflichtbereich Kategorie 1A Required Electives Category 1A | | | 12 | |
| BGU32026 | Finite Elemente Methode 2 Finite Element Method 2 | 1,3 | 6 | |
| BV040053 | Numerische Methoden in der Fluidmechanik (CFD) Computational Fluid Dynamics | 1,0 | 6 | |
| Wahlpflichtbereich Kategorie 1B Required Electives Category 1B | | | 12 | |
| BV330010 | Computational Material Modeling 2 Computational Material Modeling 2 | 1,0 | 6 | |
| BV320017 | Optimierung Optimization | 1,7 | 6 | |
| Wahlbereich Elective Studies | | | 30 | |
| Genehmigte individuelle Wahlmodule Personalized Elective Modules | | | 5 | |
| MW1364 | Internal Combustion Engines (MSPE) Internal Combustion Engines for MSPE | 2,3 | 5 | |
| BV430002 | Integraltransformationenmethoden Integral Transform Methods | 1,7 | 3 | |
| MW0376 | Biofluid Mechanics Biofluid Mechanics | 1,7 | 5 | |
| BGU33011 | Computational Mechanics for Car Body Design Computational Mechanics for Car Body Design | 1,0 | 3 | |
| BGU65009 | Künstliche Intelligenz im Ingenieurwesen Artificial Intelligence in Engineering | 1,3 | 3 | |

| Modul-ID Module ID | Modulbezeichnung Module Title | Note Grade | Credits Credits | |
|-----------------------|--|---------------|--------------------|--|
| BGU41019 | Modellierung und Simulation turbulenter Strömungen Modeling and Simulation of Turbulent Flows | 1,0 | 6 | |
| IN2026 | Wissenschaftliche Visualisierung Scientific Visualization | 2,0 | 5 | |

Der Vorsitzende des Prüfungsausschusses
Chair, Examination Board



Prof. Dr. Gerhard Müller

Zentrale Prüfungsangelegenheiten
Central Examination Office



Jana Thabor