# Zeugnis
# Certificate

RWTH AACHEN UNIVERSITY

| | |
|---|---|
| | Aryasomayajula Venkata Srikanth |
| born on | April 05, 1993 |
| in | Jagadalpur |
| has passed the | Master Examination |
| in accordance with the provisions of the syllabus for | Computer Aided Conception and Production in Mechanical Engineering |
| and has obtained the overall mark | good (2.2) |

| Master Thesis | | Credits | Mark |
|---|---|---|---|
| Topic of Master Thesis | Explicit Simulation for Material Modelling of an Adhesive and a Sealant in the Battery Housing of an Automotive | 20.00 | good (1.7) |
| Examiner | Univ.-Prof. Dr.-Ing. (RUS) Mikhail Itskov | | |

The degree program has been completed within the regular period of study.

Aachen, September 30, 2022

Chair of the Examination Board

i.V. M. Wars

Univ.-Prof. Dr.-Ing. Dr. h. c. (UPT) Burkhard Corves

Seal: Fakultät für Maschinenwesen – Z3 – d. d. Rhein.-Westf. Techn. Hochschule in Aachen

RWTH AACHEN UNIVERSITY

# Notenspiegel

**Zentrales Prüfungsamt**

**Datum: 19.10.2022**

Nachname:
**Venkata Srikanth**

Vorname:
**Aryasomayajula**

Geburtsdatum:
**5. April 1993**

Geburtsort:
**Jagadalpur**

Matrikelnummer:
**404755**

Studien-ID:
**1480 88 901 (2012)**

Studiengang:
**Computer Aided Conception and Production in Mechanical Engineering**

(angestrebter) Abschluss:
**Master of Science RWTH Aachen University (M. Sc. RWTH)**

Schwerpunkt /
**Conception of Machines**

| Module/Fächer | Note | Vm | Ang | CP | Datum | Sem |
|---|---|---|---|---|---|---|
| **Computer Aided Conception and Production in Mechanical Engineering** | **2,2** | | **N** | **121,00** | | |
| **Pflichtbereich Conception of Machines** | **2,7** | | **N** | **56,00** | **03.09.2021** | |
| **Nonlinear Structural Mechanics** | **2,7** | | **N** | **5,00** | **10.08.2020** | |
| Nonlinear Structural Mechanics | 2,7 | BE | N | 5,00 | 10.08.2020 | 20S |
| **Failure of Structures and Structural Elements** | **3,0** | | **N** | **5,00** | **18.08.2020** | |
| Failure of Structures and Structural Elements | 3,0 | BE | N | 5,00 | 18.08.2020 | 20S |
| **Machine Design Process and Practical Applications of CAET** | **3,0** | | **N** | **7,00** | **08.03.2021** | |
| Prüfung Machine Design Process + CAET | 3,0 | BE | N | 7,00 | 08.03.2021 | 20W |
| **Advanced Finite Element Methods for Engineers** | **1,7** | | **N** | **5,00** | **04.08.2020** | |
| Advanced Finite Element Methods for Engineers | 1,7 | BE | N | 5,00 | 04.08.2020 | 20S |
| **Numerical Methods in Mechanical Engineering** | **2,3** | | **N** | **7,00** | **06.03.2020** | |
| Foundations of Numerical Methods in Mechanical Engineering | 2,3 | BE | N | 7,00 | 06.03.2020 | 19W |
| **Continuum Mechanics** | **3,3** | | **N** | **5,00** | **29.07.2020** | |
| Continuum Mechanics (Kontinuumsmechanik) | 3,3 | BE | N | 5,00 | 29.07.2020 | 20S |
| **Advanced Software Engineering** | **3,0** | | **N** | **5,00** | **12.03.2021** | |
| Advanced Software Engineering | 3,0 | BE | N | 5,00 | 12.03.2021 | 20W |
| **Multibody Dynamics** | **4,0** | | **N** | **5,00** | **22.03.2021** | |
| Multibody Dynamics | 4,0 | BE | N | 5,00 | 22.03.2021 | 20W |
| **Simulation of Discrete Event Systems** | **2,7** | | **N** | **5,00** | **03.09.2021** | |
| Simulation of Discrete Event Systems, für Masterstudenten | 2,7 | BE | N | 5,00 | 03.09.2021 | 21S |
| **Control Engineering** | **3,7** | | **N** | **3,00** | **13.08.2021** | |
| Control Engineering (International Academy) | 3,7 | BE | N | 3,00 | 13.08.2021 | 21S |
| **Porous Media Mechanics** | **1,0** | | **N** | **4,00** | **09.08.2021** | |

| Module/Fächer | Note | Vm | Ang | CP | Datum | Sem |
|---|---|---|---|---|---|---|
| Mechanik poröser Medien | 1,0 | BE | N | 4,00 | 09.08.2021 | 21S |
| **Wahlbereich Conception of Machines** | **1,8** | | **N** | **21,00** | **26.02.2021** | |
| **Finite Element Methods in Lightweight Design** | **2,3** | | **N** | **5,00** | **08.09.2020** | |
| Finite Element Methods in Lightweight Design II | 2,3 | BE | N | 5,00 | 08.09.2020 | 20S |
| **Tensor Algebra and Tensor Analysis for Engineers I** | **2,0** | | **N** | **5,00** | **29.09.2020** | |
| Tensor Algebra and Tensor Analysis for Engineering Students I | 2,0 | BE | N | 5,00 | 29.09.2020 | 20S |
| **Tensor Algebra and Tensor Analysis for Engineers II** | **2,3** | | **N** | **5,00** | **28.08.2020** | |
| Tensor Algebra and Tensor Analysis for Engineers II (Tensorrechnung für Ingenieure II) | 2,3 | BE | N | 5,00 | 28.08.2020 | 20S |
| **Artificial Neural Networks in Structural Mechanics** | **1,0** | | **N** | **6,00** | **26.02.2021** | |
| Artificial Neural Networks in Structural Mechanics | 1,0 | BE | N | 6,00 | 26.02.2021 | 20W |
| **Sonstiges** | **1,7** | | **N** | **24,00** | **21.02.2022** | |
| **Industrial Internship** | **B** | | **N** | **9,00** | **21.02.2022** | |
| Industriepraktikum | B | BE | N | 9,00 | 21.02.2022 | 21W |
| **Mini Thesis** | **1,7** | | **N** | **9,00** | **11.01.2022** | |
| Projektarbeit | 1,7 | BE | N | 9,00 | 11.01.2022 | 21W |
| **German Language Course** | **B** | | **N** | **6,00** | **02.08.2021** | |
| Exam German Language Course | B | BE | N | 6,00 | 02.08.2021 | 21S |
| **Zusätzliche Prüfungsleistungen** | | | **N** | **12,00** | **10.03.2022** | |
| **Practical Introduction to FEM-Software I** | **4,0** | | **N** | **5,00** | **28.01.2020** | |
| Practical Introduction to FEM-Software I | 4,0 | BE | N | 5,00 | 28.01.2020 | 19W |
| **Computational Fluid Dynamics I** | **4,0** | | **N** | **4,00** | **10.03.2022** | |
| Numerische Strömungsmechanik I | 4,0 | BE | N | 4,00 | 10.03.2022 | 21W |
| **Computational Fluid Dynamics II** | **4,0** | | **N** | **3,00** | **10.03.2022** | |
| Numerische Strömungsmechanik II | 4,0 | BE | N | 3,00 | 10.03.2022 | 21W |

| Abschlussarbeit | Note | Vm | Ang | CP | Datum | Sem |
|---|---|---|---|---|---|---|
| **Masterarbeit** | **1,7** | | **N** | **20,00** | **30.09.2022** | **22S** |
| Thema: Explizite Simulation zur Materialmodellierung eines Klebstoffs und einer Dichtmasse im Batteriegehäuse eines Automobils | | | | | | |

**Gesamtcredits: 121,00 / 120,00**
**Gesamtnote: 2,2**

# Individual certificate of achievement

Family Name
**Venkata Srikanth**

First Name
**Aryasomayajula**

Date of Birth
**1993-04-05**

Place of Birth
**Jagadalpur**

Student ID Number
**404755**

Study-ID
**1480 88 901**

Programme of Study
**Computer Aided Conception and Production in Mechanical Engineering**

(Intended) Degree
**Master of Science RWTH Aachen University (M. Sc. RWTH)**

Status in curriculum
**Computer Aided Conception and Production in Mechanical Engineering > Vertiefungsrichtung > Conception of Machines > Compulsory Specialization Conception of Machines > Advanced Finite Element Methods for Engineers > Exam Advanced Finite Element Methods for Engineers**

Title of subject
**Advanced Finite Element Methods for Engineers**

PV-Nummer, Prüfungssemester
**41PV23067 20S**

| Grade | Annotation | ECTS credits |
|---|---|---|
| **good (1,7)** | | **5.00** |

| Examination date | Examiner |
|---|---|
| **2020-08-04** | **Univ.-Prof. Dr.-Ing. (RUS) Itskov, Mikhail** |

**Grade:**
Grades: 1,0 - 1,5 = very good / 1,6 - 2,5 = good / 2,6 - 3,5 = satisfactory / 3,6 - 4,0 = sufficient / 5,0 = failed / B = passed

Annotations: X = absent/failed, PA = exam aborted, U = cheating, M = passed with a grade of at least sufficient, G/GA/GL = deleted grade

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**Computer Aided Conception and Production in Mechanical Engineering**

(Intended) Degree
**Master of Science RWTH Aachen University (M. Sc. RWTH)**

Status in curriculum
**Computer Aided Conception and Production in Mechanical Engineering > Vertiefungsrichtung > Conception of Machines > Electives Specialization Conception of Machines > Finite Element Methods in Lightweight Design > Exam Finite Element Methods in Lightweight Design**

Title of subject
**Finite Element Methods in Lightweight Design II**

PV-Nummer, Prüfungssemester
**42PV52194 20S**

| Grade | Annotation | ECTS credits |
|---|---|---|
| **good (2,3)** | | **5.00** |

| Examination date | Examiner |
|---|---|
| **2020-09-08** | **Univ.-Prof. Dr.-Ing. Schröder, Kai-Uwe** |

**Grade:**
Grades: 1,0 - 1,5 = very good / 1,6 - 2,5 = good / 2,6 - 3,5 = satisfactory / 3,6 - 4,0 = sufficient / 5,0 = failed / B = passed

Annotations: X = absent/failed, PA = exam aborted, U = cheating, M = passed with a grade of at least sufficient, G/GA/GL = deleted grade