Karlsruhe Institute of Technology

Certificate of all Courses and Grades

Mr.
Julian Christoph Bitterwolf
Rheingoldstraße 12
76133 Karlsruhe

Date of Birth: 10/05/1990 in Schwäbisch Hall
Reg. number: 1584987
Subject sem.: 12
Total sem.: 16
Sabbatical sem.: 2
Degree: Bachelor

Field of Study: Mathematics

Courses / Exams		Date of Exam	Grade	Status	CP
Exam	Preliminary Exam	09/08/2011		PA	
Exam	Bachelor of Science	11/13/2017	1.1	PA	182.00
	Over-All Account		**1.1**		**182.00**
Module	**MATHBACH - Bachelor Thesis**		**1.0**	**PA**	**12.00**
Exam	Bachelor Thesis	11/13/2017	1.0	PA	12.00
Subject	**Seminar Courses in Mathematics**			**PA**	**7.00**
Module	**MATHBAPS01 - Proseminar**			**PA**	**3.00**
Exam	Proseminar			PA	3.00
Module	**MATHBASE01 - Seminar**			**PA**	**4.00**
Exam	Seminar			PA	4.00
Subject	**Basic Modules Field of Mathematics**		**1.3**	**PA**	**69.00**
Module	**MATHBAAG01 - Linear Algebra 1+2**		**1.0**	**PA**	**18.00**
Exam	Linear Algebra 1+2 Examination	09/08/2011	1.0	PA	18.00
Exam	Linear Algebra 2 Exercise Certificate			PA	
Module	**MATHBAAN01 - Analysis 1+2**		**0.0**	**PA**	**18.00**
Exam	Analysis I+II Examination - recognized			PA	18.00
Module	**MATHBAAN02 - Analysis 3**		**1.0**	**PA**	**9.00**
Exam	Analysis III - recognized	03/24/2011	1.0	PA	9.00
Module	**MATHBANM02 - Numerical Mathematics 1+2**		**2.3**	**PA**	**12.00**
Exam	Numerical Mathematics 1		1.7	PA	6.00
Exam	Numerical Mathematics 2	10/12/2015	3.0	PA	6.00
Module	**MATHBANM01 - Programming: Introduction into Computer Science and Algorithmical Mathematics**		**0.0**	**PA**	**6.00**
Exam	Programming: Introduction into Computer Science and Algorithmical Mathematics with C++ - recognized	07/12/2011		PA	6.00
Module	**MATHBAST01 - Introduction to Stochastics**		**1.3**	**PA**	**6.00**
Exam	Introduction to Stochastics	02/27/2012	1.3	PA	6.00
Module	**MATHBAST02 - Probability Theory**		**1.3**	**PA**	**6.00**
Exam	Probability Theory	08/07/2012	1.3	PA	6.00
Subject	**Profile Mathematics**		**1.1**	**PA**	**88.00**
Module	**Field of Mathematics: Algebra and Geometry**		**1.2**	**PA**	**50.00**
Module	**MATHBAAG02 - Introduction into Algebra and Number Theory**		**1.0**	**PA**	**8.00**

Karlsruhe, Januar/10/2018

Status: PA - passed, FA - failed, FF - finally failed

Verification key: SJAI NDKP KFBE

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Courses / Exams		Date of Exam	Grade	Status	CP
Exam	Introduction into Algebra and Number Theory	09/06/2011	1.0	PA	8.00
Module	**MATHBAAG03 - Introduction into Geometry and Topology**		**1.0**	**PA**	**8.00**
Exam	Introduction into Geometry and Topology	02/13/2012	1.0	PA	8.00
Module	**MATHBAAG05 - Algebra**		**1.7**	**PA**	**8.00**
Exam	Algebra	03/12/2012	1.7	PA	8.00
Module	**MATHAG12 - Geometric Group Theory**		**1.0**	**PA**	**8.00**
Exam	Geometric Group Theory	04/16/2012	1.0	PA	8.00
Module	**Algebraic Geometry I**		**1.7**	**PA**	**8.00**
Exam	Algebraic Geometry I	03/26/2012	1.7	PA	8.00
Module	**Differential Topology**		**1.0**	**PA**	**5.00**
Exam	Differential Topology - recognized	01/23/2017	1.0	PA	5.00
Module	**Groups and Reperesentations**		**1.0**	**PA**	**5.00**
Exam	Groups and Reperesentations - recognized	01/23/2017	1.0	PA	5.00
Module	**Field of Mathematics: Analysis**		**1.0**	**PA**	**8.00**
Module	**MATHBAAN04 - Complex Analysis**		**1.0**	**PA**	**8.00**
Exam	Complex Analysis - recognized	01/23/2017	1.0	PA	8.00
Module	**Field of Application: Physics**		**1.0**	**PA**	**30.00**
Module	**Classical Theoretical Physics I (Introduction)**		**1.0**	**PA**	**6.00**
Exam	Classical Theoretical Physics I, Introduction - recognized	02/16/2011	1.0	PA	6.00
Module	**Classical Theoretical Physics III (Electrodynamics)**		**1.0**	**PA**	**8.00**
Exam	Classical Theoretical Physics III, Electrodynamics - recognized	01/23/2017	1.0	PA	8.00
Module	**Modern Experimental Physics I (Atoms and Molecules)**		**1.0**	**PA**	**8.00**
Exam	Modern Experimental Physics I, Atoms and Molecules - recognized	01/23/2017	1.0	PA	8.00
Module	**Modern Experimental Physics II (Solid State Physics)**		**1.0**	**PA**	**8.00**
Exam	Modern Experimental Physics II, Solid State Physics - recognized	01/23/2017	1.0	PA	8.00
Module	**MATHBASQ01 - Key Competencies**		**1.9**	**PA**	**6.00**
Exam	Rhetoric Skills - recognized	02/21/2011	2.0	PA	2.00
Exam	Jean Monnet Circle Seminar: European Integration and Institutional Studies - recognized	09/14/2010	2.0	PA	2.00
Exam	Russian A1	07/27/2017	1.7	PA	2.00
	Bachelor's Degree		**1.1**		**182.00**

This certificate is automatically generated by a computer system and is valid without signature. Any additions, changes and amendments require explicit confirmation by the registrar's office of the Karlsruhe Institute of Technology (KIT), Kaiserstr. 12, 76131 Karlsruhe.

Commentary

Verification key: SJAI NDKP KFBE
To verify this certificate, please visit this webpage: https://campus.studium.kit.edu/reports/verify.php

Description of the grading system, which is used at the KIT

1,0 - 1,5	very good
1,6 - 2,5	good
2,6 - 3,5	satisfying
3,6 - 4,0	sufficient
5,0	failed