TECHNISCHE HOCHSCHULE MITTELHESSEN University of Applied Sciences Campus Gießen

Degree Certificate

Bachelor of Science (B. Sc.)

Chineen Ibrahim Ismael

Born on 01 November 2000 in IRQ

Student ID Number: 5412277

Department

Life Science Engineering

Course of study

Biomedical Engineering

has successfully completed the final Bachelor's Examination with the

Overall grade: satisfactory (2,7 / 70 %)

and achieved the following individual grades:

Bachelor Thesis

Subject:

Cold Atmospheric plasma, laser and microneedling skin fibroblast therapy

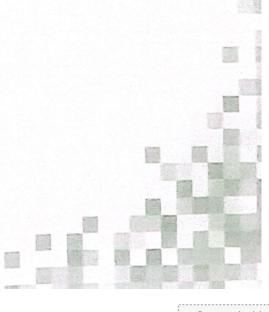
Grade: good (2,4)

Percentage Points: 75

Credit Points: 12



| Compulsory Modules | Grades | | Percentage Points | Credit Points (CrP*1) |
|---|--------------------------|-----|----------------------|--------------------------|
| Mathematics 1* | satisfactory | 3,0 | 65 | 6 |
| Physics 1* | satisfactory | 3,0 | 65 | 6 |
| Chemistry 1* | good | 2,0 | 80 | 6 |
| Biology* | excellent | 1,1 | 94 | 6 |
| Introduction to Studies and the Vocational Field of Biomedical Engineering* | passed | | | 6 |
| Mathematics 2* | sufficient | 3,8 | 54 | 6 |
| Physics 2* | good | 2,0 | 80 | 6 |
| Electronic Circuits* | satisfactory | 3,0 | 65 | 6 |
| Statistics / Analysis of scientific data* | satisfactory | 3,4 | 60 | 6 |
| Medical Fundamentals* | satisfactory | 3,0 | 65 | 6 |
| Mathematics 3° | satisfactory | 3,0 | 65 | 6 |
| Physics 3* | satisfactory | 3,0 | 65 | 6 |
| Control Engineering* | sufficient | 3,8 | 54 | 6 |
| Applied Electronics* | good | 2,0 | 80 | 6 |
| Microbiology and Sanitation* | sufficient | 3,8 | 54 | 6 |
| Materials and Strength of Materials* | good | 2,0 | 80 | 6 |
| Digital Systems* | satisfactory | 3,0 | 65 | 6 |
| Biomechanics* | satisfactory | 3,0 | 65 | 6 |
| Medical Devices* | satisfactory | 3,0 | 65 | 6 |
| Business Administration /Law* | good | 1,6 | 87 | 6 |
| Applied Medical Physics* | satisfactory | 3,0 | 65 | 6 |
| Practical Training in Biomedical Technology | participated with succes | | | 18 |



| Compulsory Modules | Grades | | Percentage Points | Credit Points ¹ (CrP* ¹) |
|---|--------------|-----|----------------------|--|
| Biomedical Multibody Systems* | good | 2,0 | 80 | 6 |
| Image Processing* | satisfactory | 3,0 | 65 | 6 |
| Microprocessor and Microcontroller* | satisfactory | 3,0 | 65 | 6 |
| Biomedical Measurement and Signal Processing* | satisfactory | 3,0 | 65 | 6 |
| Overall Grade: | satisfactory | 2,7 | 70 | 180 |

For the duration of studies, the course of study was accredited by AQAS Koln..

Gießen, 15 February 2023

Dean

Tochschule Mille Mosses Engineering

Head of the Examination Board

U. Will

*¹according to the "European Credit Transfer System"
* recognised academic performances from abroad
** recognised academic performances from within Germany

excellent

1,0 - 1,5 (100 - 88%) 1,6 - 2,5 (87 - 73%) 2,6 - 3,5 (72 - 58%) good satisfactory

3,6 - 4,0 (57 - 50%) 5,0 (<50%) sufficient / fail





BACHELOR CERTIFICATE

Chineen Ibrahim Ismael

born on 01. November 2000

in IRQ

has on 15. February 2023

the Bachelor Examination in the

Bachelor Programme

Biomedical Engineering

Department

Life Science Engineering

successfully completed.

On the base of this examination
the Technische Hochschule Mittelhessen /
University of Applied Sciences
confers the academic degree
Bachelor of Science
Short form: B.Sc.

Gießen, 15 February 2023

President

