



The Examination Board, established for the English Bachelor's Degree programme in Information & Communication Technology of the Fontys School of Information and Communication Technology, part of Fontys University of Applied Sciences, certifies that

## Muhammad Tariq Arif Hussain

born on 23 September 1995 in Dibrugarh, India

successfully completed the exams of the Bachelor's Degree programme

## Information & Communication Technology

(registered name: HBO-ICT)

with the main subject of **ICT & Business**

in the year 2019.

The graduate is authorised to use the degree Bachelor of Science. The title obtained with this degree is ingénieur, abbreviated to ing.

The examination, which covered the subjects as mentioned overleaf, was conducted in virtue of the Education and Examination Regulation as laid down by the Governing Board in accordance with the requirements as decreed in the Higher Education and Research Act (WHW, Stb. 593, 1992).

Date of the latest accreditation report of the programme concerned: June, 2018.

The programme is registered in the Central Register of Higher Education Study Programmes with number: 30020.

**EINDHOVEN, 28 January 2019**

The Examination Board:

Chair:

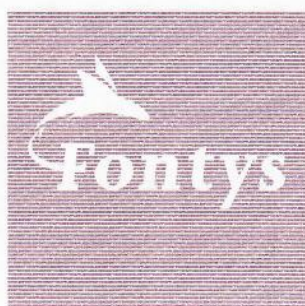
dr. ir. M.G.J. Franssen

Secretary:

ing. M.H.T. Fransen

The candidate:

2222716-2019-1-000342



The certificate concerning

## **Muhammad Tariq Arif Hussain**

who successfully completed the exams of the Bachelor's Degree programme **Information & Communication Technology** with the main subject of **ICT & Business**, applied to the following units of study:

Major : Information & Communication Technology  
Minors : - Applied Data Science  
- Data Driven Business Lab

Business Economics and Administration  
Data Warehousing & Statistics  
E-Business  
Graduation Project  
Internship  
Network Architecture  
Project Business  
Service Oriented Architecture & Management  
Supply Chain Management  
System Development  
User Interface Design

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De volgende elementen kenmerken de echtheid van dit document:

1. De microtekst in het vierkante parse vlak van het logo onderaan het document. Als u dit vlak 10 keer of meer vergroot wordt de tekst leesbaar.
2. Een zilverfoliestrip rechts op het document. In de zilverfolie is het monogram van Fontys Hogescholen (de letter 'F' met Fontysvis) uitgespaard.
3. Een uniek nummer links naast het monogram, tevens uitgevoerd in laserperforatie. Bij twijfel over de echtheid van het document kunt u bij Fontys Hogescholen verifiëren of de naam en het nummer corresponderen.
4. In het papier zit een wereldwijd beschermd watermerk.



*This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.*

## 1. Information identifying the holder of the qualification

- 1.1 Given name(s) and Family name** : Muhammad Tariq Arif Hussain  
**1.2 Date of birth** : 23 September 1995  
**1.3 Place of birth** : Dibrugarh, India  
**1.4 Student identification number / code** : 2222716

## 2. Information identifying the qualification

### 2.1 Name of the qualification:

Getuigschrift Hoger Beroepsonderwijs (Degree Certificate of Higher Professional Education);  
Degree: Bachelor of Science;  
Nationally accepted title: Ingenieur (ing.)

### 2.2 Main field of study:

HBO-ICT (Information & Communication Technology), registered in the "Centraal register opleidingen hoger onderwijs" (CROHO) Central Register of Higher Education Study Programmes; Registration No. 30020.  
Main Subject : ICT & Business

### 2.3 Name and status of awarding institution:

Fontys Hogescholen; public University of Applied Sciences, state recognized institution, falling within the scope of the Higher Education and Research Act (WHW Stb. 593, 1992 and subsequent amendments and supplements)

### 2.4 Name and status of institution:

Fontys Hogescholen; public University of Applied Sciences, state recognized institution, falling within the scope of the Higher Education and Research Act (WHW Stb. 593, 1992 and subsequent amendments and supplements)

### 2.5 Language of instruction:

English

## 3. Information on the level of the qualification

### 3.1 Level of qualification:

Bachelor's Degree; University of Applied Sciences; First cycle National Qualifications Framework for Higher Education; Level 6 EQF for LLL.

### 3.2 Official length of programme:

4 years; study load in ECTS-credits: 240

### 3.3 Access requirement(s):

See 'Requirements for Access to Higher Education'.  
Prospective students with a certificate issued outside the Netherlands must demonstrate that their command of the English language is adequate.

## 4. Information on the contents and results gained

### 4.1 Mode of study:

Full-time, including work placements and / or research



#### 4.2 Programme requirements:

Students are prepared for the particular professions by a degree programme as described in "Bachelor of ICT, domain description", March 2014, HBO-I stichting, (<http://www.hbo-i.nl/>).

A study at HBO-ICT offers various specializations to graduate. Within each specialization the student has to know and be able to realize core competences of one of the basic ICT profiles (Technology, Software Engineering, Business). A specialization can be chosen from this basic profile. Both the internships (work placement) and the graduation project should be carried out in the context of the specialization chosen.

The education is focused on innovation, closely intertwined with professional practise, it ensures the development of professional attitude, encourages an active study attitude and with that it is strongly oriented in personal development. The final competences of the chosen specialization are described in the appendix.

Two grading systems are used, one digital with scores ranging from 1 (very poor) to 10 (outstanding) and the other one textual with scores O (insufficient), V (sufficient), G (good), U (excellent). Alongside results gained during curricular courses exemptions can be acquired.

#### 4.3 Programme details:

The first year of the programme is referred to as the Propaedeutic phase, which provides students with introductory courses and projects fundamental to the discipline in question. In the following core phase knowledge, skills and attitude are developed to an advanced level through courses, projects and an internship. Alongside focus on the body of knowledge of the major programme, expeditions are made to one or two different innovative application domains. In the final examination phase competences are developed to the bachelor level through courses, projects, a graduation project and a minor program. See the transcript for detailed information.

#### 4.4 Grading scheme:

##### Grading system in the Netherlands

Dutch grades range from 1 (very poor) to 10 (outstanding); a 6 is a pass. It should be noted that 9s and 10s are rarely given. On final lists, grades are normally rounded off (above 0.5 is rounded up and below 0.5 is rounded down, thus a 5.5 equals a 6 equals a pass, whereas a 5.4 equals a fail.) However, on exams and course work, it is customary to get a grade that has not been rounded off. The Dutch grading system is listed in the table below.

Grade	In words NL	Abbr. NL	Meaning EN	Abbr. EN
10	Uitstekend	U	Outstanding	O
9	Zeer Goed	ZG	Very Good	VG
8	Goed	G	Good	G
7	Ruim Voldoende	RV	More than Satisfactory	MS
6	Voldoende	V	Satisfactory	S
5	Twijfelachtig	T	Almost Satisfactory	AS
4	Onvoldoende	O	Unsatisfactory	U
3	Ruim onvoldoende	RO	Very Unsatisfactory	VU
2	Slecht	S	Poor	P
1	Zeer slecht	ZS	Very Poor	VP

Expression NL	Abbr. NL	Meaning EN	Abbr. EN
Behaald	BEH	Pass	PA
Niet Behaald	NB	Fail	F
Vrijstelling	VR	Exemption	EX

Grade Distribution Table

Study programme: <b>Bachelor Information &amp; Communication Technology</b> , register number 30020 Reference group: 3 previous academic years 2014-2015 - 2016-2017, number of passing grades: 27541 Fontys School: Fontys School of Information and Communication Technology					
Grade:	5.5-6.4	6.5-7.4	7.5-8.4	8.5-9.4	9.5-10
%	21.0%	36.0%	29.0%	11.0%	3.0%
Cum. %	100.0%	79.0%	43.0%	14.0%	3.0%

See: <https://www.fontys.nl/GradeDistribution> for information on the Grade Distribution at Fontys Hogescholen.

#### 4.5 Overall classification of the qualification:

met goed gevolg (Successfully)

### 5. Information on the function of the qualification

#### 5.1 Access to further study:

The "Getuigschrift Hoger Beroepsonderwijs" gives access to several types of further study: Related master degree programmes; Shortened university study programmes leading to the university "getuigschrift"; Post-HBO courses of varying length.

#### 5.2 Professional status:

HBO graduates are fully qualified to practise their profession on the bachelor level without further study, licensing or registration with a professional association.

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**6. Additional information****6.1 Additional information:**

The degree programme was accredited by the Accreditation Organization of the Netherlands and Flanders (Nederlands-Vlaamse Accreditatie Organisatie, NVAO) on 29 June 2018.

**6.2 Further information sources:**

For general information about Fontys: <http://www.fontys.nl>

For information in the English language: <http://fontys.edu/about-fontys>

Further information on Higher Professional Education in the Netherlands can be obtained at: Nuffic, Kortenaerkade 11, P.O. Box 29777, 2502 LT Den Haag, The Netherlands: <http://www.epnuffic.nl>

There is also an important site on the Recognition of Diplomas: <http://ec.europa.eu/education>

**7. Certification of the supplement**

**7.1 Date** : 28 January 2019

**7.2 Signature** :



**7.3 Capacity** : dr. ir. M.G.J. Franssen ; Chair of the Examination Board

**7.4 Stamp** :

**8. Information on the Dutch higher education system: See enclosed information**





## Diploma Supplement Transcript of Credits (see No. 4.2/4.3.)

DEGREE PROGRAMME: Bachelor Information & Communication Technology  
(registered name: Bachelor HBO-ICT)

Given name and Family name : Muhammad Tariq Arif Hussain  
Date, place of birth : 23 September 1995 in Dibrugarh, India  
Date of qualification : 28 January 2019  
Student identification number : 2222716  
Certificate identification number : 2222716-2019-1-000342

	<b>Subject name</b>	<b>Subject name in English</b>
Major	: HBO-ICT	Information & Communication Technology
Main Subject	: ICT & Business	ICT & Business
Minors	: - Applied Data Science	- Applied Data Science
	- Data Driven Business Lab	- Data Driven Business Lab

### Course components

Code	Subject name	Subject name in English	Date	Grades	ECTS
	<u>Propedeutic phase</u>	<u>Propedeutic phase</u>			
IICOM1_14	Communication 1	Communication 1	26/11/2014	S	2
IIEB1_14	Databases 1	Databases 1	29/10/2014	6	3
IIMAT1_14	Mathematics 1	Mathematics 1	04/04/2014	7	3
IIPCS1_14	Programming C# 1	Programming C# 1	31/10/2014	6	4
IIICS_11	Introduction computer systems	Introduction computer systems	31/10/2014	7.8	3
IIEB2_14	Databases 2	Databases 2	12/01/2015	9	3
IIIDE_11	Integrated development environment	Integrated development environment	24/06/2014	6	3
IIMAT2_14	Mathematics 2	Mathematics 2	19/06/2014	7	3
IIPCS2_14	Programming C# 2	Programming C# 2	31/03/2014	6.0	4
IIPM_11P	Project Management	Project Management	18/06/2014	8	2
IIEB3_14	Databases 3	Databases 3	09/04/2015	6	3
IIITA1_11T	Internet Applications 1	Internet Applications 1	27/10/2014	8	3
IIPOPD1_14	Professional Orientation/Personal Development 1	Professional Orientation/Personal Development 1	22/04/2015	S	2
IIITILB_11	IT Service Management	IT Service Management	09/04/2015	7	3
IISO1B_11	System Development 1	System Development 1	07/04/2015	7.9	3
IIITA2_11T	Internet Applications 2	Internet Applications 2	30/06/2015	8	3
IIPCSB_13	Programming C# Business	Programming C# Business	12/01/2015	S	1
IIPOPD2_14	Professional Orientation/Personal Development 2	Professional Orientation/Personal Development 2	24/06/2015	S	1
IIPROP_11P	Project Propedeuse	Project Propedeuse	23/06/2015	8.5	8
IISO2B_11	System Development 2	System Development 2	16/06/2015	7.2	3
	<u>Core phase</u>	<u>Corephase</u>			
IIBEC1_14	Business Economics 1	Business Economics 1	20/10/2015	6	3
IISCM_15	Supply Chain Management	Supply Chain Management	19/10/2015	8	3
IISO3_11	System Development 3	System Development 3	22/10/2015	6	3
IIUID_11	User Interface Design	User Interface Design	08/04/2015	5.5	3
IIEXC_15	Excel	Excel	12/05/2016	6.9	3
IISO4_11	System Development 4	System Development 4	20/01/2016	9	3
IIBEC2_14	Business Economics 2	Business Economics 2	26/01/2016	8	3
IIEBUS_14	E-Business	E-Business	22/01/2016	7.5	3
IISOA_15	Service Oriented Architecture	Service Oriented Architecture	21/01/2016	7.3	3
IISTAT_15	Statistics	Statistics	29/01/2016	6.8	3
IIDWH_15	Data Warehousing	Data Warehousing	22/10/2015	7.4	3
IIITE_11	Introduction Telematics	Introduction Telematics	14/04/2016	7	3

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Code	Subject name	Subject name in English	Date	Grades	ECTS
2291TAT&H	Trends & Hypes	Trends & Hypes	30/06/2016	7.8	2
IIBDK4	Business	Business	21/09/2016	6.4	7
IIIB4	Informatics for Business	Informatics for Business	01/07/2016	6.6	6
IIPTB4	Proftask for Business	Proftask for Business	01/07/2016	6	5
IIEDB4_14	Databases 4	Databases 4	22/01/2018	5.5	3
IIPRIN	Prince	Prince	05/10/2016	MS	1
29ADS16	Applied Data Science	Applied Data Science	27/01/2017	PA	30
IIIS_11	Internship	Internship	29/06/2017	9	30
IIISP_11	Presentation	Presentation	29/06/2017	8.5	6
IIISR_11	Final Report	Final Report	29/06/2017	9.0	12
IIISW_11	Preparation and execution	Preparation and execution	29/06/2017	8.9	12
	<u>Graduation phase</u>	<u>Graduation phase</u>			
229FMDDBUS	Data Driven Business Lab	Data Driven Business Lab	25/01/2018	PA	30
2291GRAD	Graduation Project	Graduation Project	28/01/2019	7	30
2291GRADW	Work	Work	28/01/2019	7.5	12
2291GRADR	Report	Report	28/01/2019	7.0	12
2291GRADP	Presentation	Presentation	28/01/2019	7.5	6
	<b>Totaal aantal behaalde ECTS-studiepunten</b>	<b>Total number of ECTS-credits achieved</b>			<b>240</b>