NORTH-WEST UNIVERSITY
YUNIBESITI YA BOKONE-BOPHIRIMA
NOORDWES-UNIVERSITEIT
POTCHEFSTROOM CAMPUS

Private Bag X6001, Potchefstroom
South Africa, 2520

Tel: (018) 299-1111/2222
Web: http://www.nwu.ac.za

ACADEMIC RECORD

Date: 5 June 2017
Student number: 22095306 - 2010
Title, Name and Surname: MR HENDRIK CORNELIS BRANKEN
Date of Birth: 1991/07/08

Qualification Program: BACHELOR OF SCIENCE - PHYSICAL AND CHEMICAL SCIENCES - 200190
Curriculum: PHYSICS AND APPLIED MATHEMATICS - N155P
Method of Delivery: FULL TIME
Campus: Potchefstroom
Qualification Acceptance Date: 01/02/2010

Year	Cr	Module	Module Type	Mark	Result
2010	12	AGLE 1 11 INTRODUCTION TO ACADEMIC LITERACY	Ancillary subj	81	Distinction
	12	AGLE 1 21 ACADEMIC LITERACY	Ancillary subj	85	Distinction
	12	CHEM 1 11 INTRODUCTORY INORGANIC &PHYSICAL CHEMIS	Ancillary subj	85	Distinction
	12	FSKS 1 11 MECHANICS, OSCILLATIONS, WAVES &THEORY	Core module	99	Distinction
	12	FSKS 1 21 ELECTR, MAGNETISM, OPTICS, ATOMIC &NUCL	Core module	96	Distinction
	12	ITRW 1 15 PROGRAMMING FOR ENGINEERS I (C++)	Ancillary subj	86	Distinction
	12	ITRW 1 24 PROGRAMMING I	Ancillary subj	97	Distinction
	12	TGWN 1 22 APPLIED MATHEMATICS	Core module	95	Distinction
	12	WISN 1 11 INTRODUCTORY ALGEBRA AND ANALYSIS I	Core module	99	Distinction
	12	WISN 1 21 INTRODUCTORY ALGEBRA AND ANALYSIS II	Core module	98	Distinction
2011	8	FSKS 2 11 ELECTRICITY AND MEGNETISM	Core module	97	Distinction
	8	FSKS 2 12 OPTICS	Core module	99	Distinction
	8	FSKS 2 21 SPECIAL RELATIVITY	Core module	98	Distinction
	8	FSKS 2 22 INTRODUCTORY QUANTUM PHYSICS	Core module	98	Distinction
	8	TGWN 2 11 DYNAMICS I	Core module	0	2nd Op.granted
	8	TGWN 2 11 DYNAMICS I	Core module	95	Distinction
	8	TGWN 2 12 DIFF EQUATIONS &NUM METHODS	Core module	88	Distinction
	8	TGWN 2 21 DYNAMICS II	Core module	90	Distinction
	8	TGWN 2 22 NUMERICAL ANALYSIS	Core module	94	Distinction
	8	WISN 2 11 ANALYSIS III	Ancillary subj	0	2nd Op.granted
	8	WISN 2 11 ANALYSIS III	Ancillary subj	96	Distinction
	8	WISN 2 12 LINEAR ALGEBRA I	Ancillary subj	84	Distinction
	8	WISN 2 21 ANALYSIS IV	Ancillary subj	82	Distinction
	8	WISN 2 22 LINEAR ALGEBRA II	Ancillary subj	91	Distinction
	12	WVNS 2 11 UNDERSTANDING THE NATURAL WORLD	Ancillary subj	75	Distinction
	12	WVNS 2 21 UNDERSTANDING THE NATURAL WORLD	Ancillary subj	87	Distinction
2012	16	FSKS 3 11 ELECTROMAGNETISM	Core module	97	Distinction
	16	FSKS 3 12 WAVE MECHANICS	Core module	94	Distinction
	16	FSKS 3 21 THERMODYNAMICS	Core module	99	Distinction
	16	FSKS 3 22 NUCLEAR PHYSICS AND ELEMENTARY PARTICLES	Core module	96	Distinction
	16	FSKS 3 23 ASTRO- AND SPACE PHYSICS	Core module	99	Distinction
	16	TGWN 3 11 PARTIAL DIFFERENTIAL EQUATIONS	Core module	96	Distinction
	16	TGWN 3 12 PARTIAL DIFFERENTIAL EQUATIONS (NUM)	Core module	92	Distinction
	16	TGWN 3 22 OPTIMALISATION	Core module	87	Distinction

The abovementioned student formally satisfied all the requirements for the BACHELOR OF SCIENCE - PHYSICAL AND CHEMICAL SCIENCES with distinction as at 27/11/2012 and it was/will be officially conferred to him/her on 26/02/2013.

Qualification Program: HONOURS BACHELOR OF SCIENCE - PHYSICS - 202121
Curriculum: PHYSICS - N652P
Method of Delivery: FULL TIME
Campus: Potchefstroom
Qualification Acceptance Date: 01/02/2013

Year	Cr	Module	Module Type	Mark	Result

22095306 - BRANKEN, HC

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2013	16	FSKH 6 11 CLASSICAL MECHANICS	Core module	91	Distinction
	16	FSKH 6 12 QUANTUM MECHANICS I	Core module	92	Distinction
	16	FSKH 6 13 ELECTRO DINAMICS	Core module	99	Distinction
	16	FSKH 6 14 PLASMAPHYSICS	Core module	88	Distinction
	16	FSKH 6 21 QUANTUM MECHANICS II	Core module	87	Distinction
	16	FSKH 6 22 STATISTICAL MECHANICS	Core module	100	Distinction
	16	FSKH 6 23 COMPUTER PHYSICS	Core module	94	Distinction
	8	FSKH 6 71 PROJECT I	Core module	87	Distinction
	8	FSKH 6 72 PROJECT II	Core module	90	Distinction

The abovementioned student formally satisfied all the requirements for the HONOURS BACHELOR OF SCIENCE - PHYSICS with distinction as at 29/11/2013 and it was/will be officially conferred to him/her on 04/03/2014.

Qualification Program:	**MASTER OF SCIENCE - SPACE PHYSICS - 203128**
Curriculum:	**PHYSICS - N866P**
Method of Delivery:	**FULL TIME**
Campus:	**Potchefstroom**
Qualification Acceptance Date:	**01/02/2014**

Year	Cr	Module	Module Type	Mark	Result
2014	16	FSKM 8 11 ASTRO PHYSICS I	Core module	89	Distinction
	16	FSKM 8 12 TRANSPORT THEORY	Core module	0	No participati
	16	FSKM 8 13 ASTROPHYSICS II	Core module	67	Passed
	132	FSKS 8 72 DISSERTATION	Core module	0	Module continu
2015	16	FSKM 8 12 TRANSPORT THEORY	Core module	98	Distinction
	132	FSKS 8 72 DISSERTATION	Core module	0	Module continu
2016	132	FSKS 8 72 DISSERTATION	Core module	85	Distinction

The abovementioned student formally satisfied all the requirements for the MASTER OF SCIENCE - SPACE PHYSICS with distinction as at 22/02/2017 and it was/will be officially conferred to him/her on 23/05/2017.

Modules for qualification purposes will only be acknowledged if the student meets the necessary admission requirements.

CERTIFICATE OF CONDUCT

It is hereby certified that the student is/was registered for the abovementioned year/years at the university and that his/her behaviour is/was satisfactory. (In respect of students who are enrolled, this declaration is valid as at the date of issue.) This document is issued without omission or change in any form.

REGISTRAR