

UNIVERSITY OF PRETORIA
FACULTY OF ENGINEERING, BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

1. BIOGRAPHICAL SKETCH

1.1 GENERAL INFORMATION

Surname	Meeser				Maiden name	-				
First names	Riaan Frederick				ID Number					
Citizenship	South African				Title	Mr	Female		Male	x
Place of birth	Pretoria				Date of birth	13 August 1985				
Population group	African		Coloured		Indian		White	x	Other (Please specify)	
Marital status	Single				Direct Telefax No.	086 672 7651				
Direct Telephone	012 420 2194				E-mail	Riaan.meeser@up.ac.za				
Residential address					Postal address	P.o. box 10104 centurion 0046				

1.2 LANGUAGE PROFICIENCY

Afrikaans (read, write, speak)
 English (read, write, speak)

1.3 HIGHEST SCHOOL QUALIFICATION

INSTITUTION	SUBJECTS	DISTINCTIONS
Hoërskool Zwartkop	Afrikaans English Mathematics Science Technical drawing Technical electrical	x x x

1.4 ACADEMIC QUALIFICATIONS OBTAINED					
Degree/ Diploma	Field of study	Higher education institution	Period	Year of graduation	Distinctions
B.eng	Mechanical	University of Pretoria	2004- 2007	2007	
B.eng (Hons)	Mechanical	University of Pretoria	2008	2008	

Please attach academic records – highest qualification

1.5 WORK EXPERIENCE TO DATE		
Name of employer	Capacity and/or type of work	Period
University of Pretoria	Junior lecturer (part time)	01/2008-12/2008
University of Pretoria	Junior lecturer (part time)	01/2009-06/2009
University of Pretoria	Lecturer (Full time)	01/2010-present

2. TEACHING AND LECTURING DUTIES

2.1 Courses/modules presented: UNDERGRADUATE					
Course	Level (second year, etc.)	Academic Institution	Degree/ Diploma	Compilation of study guides (Yes or No)	Curriculum design (Yes or No)
MGC110	1	UP	B.eng	No	No
Mow122	1	UP	B.eng	No	No
MOX410	4	UP	B.eng	No	No
MSC412	4	UP	B.eng	No	No
MSC422	4	UP	B.eng	No	No

2.2 Courses/modules presented: POSTGRADUATE					
Course	Level	Academic Institution	Degree/ Diploma	Compilation of study guides (Yes or No)	Curriculum design (Yes or No)
-	-	-	-	-	-

2.3 Educational courses attended	TLC_2009 (Training Teaching and Learning) Occupational health and safety (OHS representative course) Click Up (overview)
---	--

2.4 Lecturer evaluation by students (Appendix A)

Attach a report by the Head of Department or Dean on the results or representative student evaluations made of your work in recent years.

3. RESEARCH

RESEARCH FIELD Design	SPECIALITY Vehicles (for example: braking systems, aspiration, Valve timing, variable compression etc.) Power transfer (especially using MR-fluid) MR-fluid under compression MR fluid in valve mode
---------------------------------	---

3.1 RESEARCH DUTIES

3.1.1 Former supervision or co-supervision (completed)

Name of student	Degree/Title of dissertation/ thesis and date	Supervisor/ Co-supervisor(s)	Duration of studies (years)
CJ Ryan	Study the effect of varying brake disk profiles	Supervisor	1
RJ Dubber	Study the effect of MR fluid under compression	Supervisor	1
MS Mahlangu	Study the effect of MR fluid under compression	Supervisor	1
JHS Terblanche	Investigation into variable compression ratio implemented on an internal combustion engine	Supervisor	1
GJ Giliomee	Control system for prevention of mobile crane tipping	Supervisor	1
M de Wit	Pressurized dry ice storage container	Supervisor	1
AK Chauke	Increasing MR fluid yield strength by imposing externally applied compression	Supervisor	1
WA Christie	Feasibility study of using a vehicle's air conditioner system to cool down the charge air from a turbo	Supervisor	1
GCJ de Bruyn	Determining optimal MR fluid film thickness for shear application	Supervisor	1
FJ Potgieter	Research the ability of a laser displacement meter to be used in a 3d object scanner	Supervisor	1
D van Greanen	Study into the feasibility of using a solenoid to actuate the valve of an internal combustion engine	Supervisor	1
P Natorp	Study into the feasibility of using a solenoid to actuate the valve of an internal combustion engine	Supervisor	1
BJ Zeeman	The design and testing of an insulated, pressurized dry ice storage container	Supervisor	1
I Smith	The design and testing of an insulated, pressurized dry ice storage container	Supervisor	1
N Steenekamp	Design and testing of an anti-lag system using an external combustor	Supervisor	1
J Prinsloo	Design and testing of an anti-lag system using the bang-bang method	Supervisor	1

3.1.2 Current postgraduate students					
Name of student	Degree enrolled for and date of first registration	Project title	Supervisor	Co-supervisor(s)	Year of registration
-	-	-	-	-	-

3.1.3 Obtaining research funds			
Origin of research funds (e.g. contract research, THRIP, international funding organisations, other(s))	Title of research project or programme	Duration	Money allocated (R)
-	-	-	-

3.2 RESEARCH OUTPUT

3.2.1 Publications in refereed accredited journals

3.2.2 Papers *accepted* for publication in refereed accredited journals

3.2.3 Papers *submitted* for publication in refereed accredited journals

3.2.4 Papers *presented and published* in *national* conference proceedings

3.2.5 Papers *presented and published* in *international* conference proceedings

3.2.6 Papers *presented and published* in *refereed accredited* conference proceedings

3.2.7 Conference papers presented (*but not published*)

3.2.8 Published reports

3.2.9 Technical reports

3.2.10 Books / Textbooks

3.2.11 Chapters in books

3.2.12 Registered patents

3.2.13 Patents – pending

3.2.14 Multimedia material

4 OTHER SCHOLARLY RESEARCH-BASED CONTRIBUTIONS

4.1 Participation in conferences, workshops and short courses - specify type of contribution:

4.1.1 National

4.1.2 International

4.2 Teamwork and collaboration with others (please specify):

Other researchers (national and international)

Other research institutions (national and international)

Industry

4.3 Membership of national and international bodies

List all the scientific associations or societies to which you belong. Name your involvement, e.g. honorary member, founder member, full member, chairperson, president, secretary, and dates of such involvement.

4.4 Visits to local and overseas universities or research institutes as guest professor or researcher

5. MANAGEMENT AND ADMINISTRATIVE DUTIES (LEADERSHIP)

List your involvement in departmental activities (e.g. administrative functions), faculty (e.g. faculty committees) or other university activities

6. COMMUNITY SERVICE OR PROFESSIONAL SKILLS

6.1 Professional activities

(List project titles, institutions and communities involved, etc.)

6.2 Professional service performed

(List the courses you presented, lectures at professional associations/clubs, radio or TV appearances, external expert or appointment committee, etc.)

6.3 Professional societies

6.4 Involvement with other universities/scientific institutions

(e.g. external examiner, editor of journal, advisory council, CSIR, SA Council for Scientific Professions)

6.5 Refereeing duties

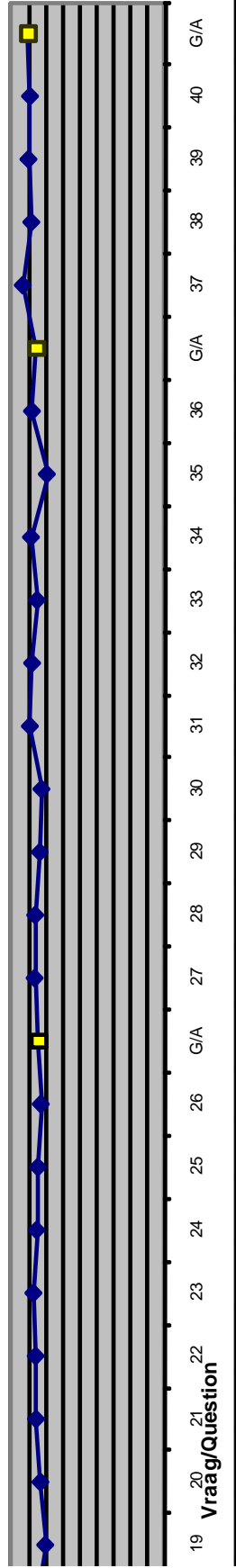
(e.g. journals, dissertations/theses)

6.6 Evaluation status as scientist

(e.g. NRF; first evaluation and date, subsequent evaluations and dates)

6.7 Professional registration (e.g. Pr Eng)

Datum/Date	27/05/2011		Aantal vorms/Number of forms		368		Gemiddeld/Average										3.8						
aantal vorms nie/Note: Where students did not answer all questions, columns did not add up to the number of forms.																							
Vraag / Question																							
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	G/A	
84	83	102	106	105	91	93	91	95	95	89	79	126	122	95	117	79	118	14	7	10	8	37%	
96	128	112	120	138	134	117	##	139	150	114	119	127	119	117	131	96	121	15	10	7	8	38%	
106	86	102	84	72	85	99	##	81	65	101	103	61	67	101	71	104	71	5	5	4	4	17%	
39	35	20	26	26	30	36	30	21	17	24	28	25	25	23	18	41	25	0	2	3	1	6%	
25	17	13	15	11	10	7	19	12	22	19	18	10	14	12	12	28	11	1	0	0	1	2%	
3.5	3.6	3.8	3.8	3.9	3.8	3.7	3.6	3.8	3.8	3.7	3.6	4.0	3.9	3.7	3.9	3.5	3.9	3.8	4.2	3.9	4.0	4.0	4.0
350	349	349	351	352	350	352	##	348	349	347	347	349	347	348	349	348	346	35	24	24	22		
Leerfasilitering/Facilitation of learning															Assesering/Assessment							Add. Items	



Dositent/Lectureur		Mnr Riaan Meeser																	Module		MGC 110	
Nota: Waar studente nie alle antwoorde voltooi het nie, tel die kolomme nie op na die																						
Respos(-e)	1	2	3	4	5	6	7	8	9	10	11	12	G/A	13	14	15	16	G/A	17	18		
5	72	142	128	109	95	62	186	155	110	82	111	145	33%	162	140	151	125	41%	88	92		
4	103	136	129	143	118	95	108	114	134	120	137	134	34%	112	117	125	96	32%	136	137		
3	93	56	59	75	100	101	42	55	73	103	78	55	21%	52	56	54	94	18%	86	85		
2	39	18	33	20	33	57	14	24	28	29	26	12	8%	13	24	12	24	5%	28	25		
1	49	5	11	11	12	40	7	10	14	24	5	8	5%	13	16	10	13	4%	13	12		
GEM/AVG	3.3	4.1	3.9	3.9	3.7	3.2	4.3	4.1	3.8	3.6	3.9	4.1	3.8	4.1	4.0	4.1	3.8	4.0	3.7	3.8		
TOT	356	357	360	358	358	355	357	358	359	358	357	354		352	353	352	352		351	351		
Onderrig/Teaching												Professional(iteit/ism)										

