

ACADEMIC PROFILE: DEPARTMENT MATHEMATICS AND STATISTICS

Name	Department	Areas of expertise	Research achievements (e.g. awards, grants, publications, patents etc.)	Shortened CV	Contact details
Prof SV Joubert	Mathematics and Statistics	Ring and Module Theory. Applied Mathematical Technology at both the undergraduate and graduate levels. Introducing Technology into Mathematics and Mathematics Education.	<ol style="list-style-type: none"> 1) Laurel Award (as Leader and part of) the Research Team 1999. 2) NRF C-rating. 3) Published <ol style="list-style-type: none"> (a) 28 accredited journal articles. (b) eight (9) peer-reviewed non-accredited journal articles 4) With students and colleagues: 46 conference participations, with 25 peer-reviewed/refereed conference proceeding publications, 13 oral presentations and three poster presentations. 5) One registered patent 6) Two (2) invited lectures (University of Bremen and NMMU) 7) One plenary lecture at NMMU. 8) Five (5) research reports and one non-refereed journal publication. 9) R1 515 500 in grants from the NRF and TUT since 2001 . 	<p>Appointed at TUT (then Pretoria CATE) in 1975 as a physics lecturer. Appointed HOD of Mathematics and Statistics in 1982 and resigned from that post in 2007 to be appointed in the post of "Research Fellow" at TUT in 2007. Obtained DSc (Mathematics) in 1984. Was one of the first 12 full professors appointed at Technikon Pretoria (now TUT) in 1995. Appointed NRF and TUT Focus Area Leader: Mathematical Technology in the late 1990s. Supervised/co-supervised 17 master's students and seven doctoral students. External examiner for one MSc (UNISA) and one PhD (RMIT). DRIC member (ex-officio). FRIC representative for Department of Mathematics and Statistics. Appointed to the TUT Senate for 2010/2011. Registered Pr.Sci.Nat.</p>	<p>TEL: 012-382-6324 FAX: 012-382-6113 e-mail" joubertsv@tut.ac.za</p>

			<p>10) Reviewer for the NRF, HSRC, IJMEST, IJPAP, IJMMS and TIME conferences.</p> <p>11) Member of AMESA, SAMS, AMS.</p>										
Prof I Fedotov	Mathematics and Statistics	Mathematics Applied Mathematics	<p>1) More than 50 publications in peer-reviewed journals.</p> <p>2) More than 80 papers presented at national and international conferences.</p> <p>3) Received IRDP grants (NRF) since 2004. NRF rating C1.</p>	<p>Prof Fedotov graduated from Moscow Lomonossov University in 1962, with PhD(Mathematics) in 1970. He was appointed in 2002 as research Professor at TUT.</p> <p>During the period from 2002</p> <p>Number of publications in peer-reviewed journals: 14</p> <p>Number of talks presented in international conferences 30</p> <p>Students supervision:</p> <table> <tr> <td>Graduated (DTech)</td> <td>2</td> </tr> <tr> <td>(MTech)</td> <td>6</td> </tr> </table> <p>Current Supervision</p> <table> <tr> <td>(DTech)</td> <td>2</td> </tr> <tr> <td>(MTech)</td> <td>4</td> </tr> </table> <p>External Examiner for PhD and MSc.</p> <p>University of Pretoria, Victoria University of Technology (Australia)</p> <p>WITS</p> <p>Referee in Journals: JSV (USA), AJMAA</p>	Graduated (DTech)	2	(MTech)	6	(DTech)	2	(MTech)	4	<p>Tel: 012 382 6416</p> <p>Fax: 012 382 6114</p> <p>Cell: 0827146148</p> <p>Email: fedotovi@tut. ac.za</p>
Graduated (DTech)	2												
(MTech)	6												
(DTech)	2												
(MTech)	4												

				NRF Referee, Editor of AJMAA (Australian Journal of Mathematical Analysis and Applications)	
Prof M Shatalov	Mathematics and Statistics	Mathematics Applied Mathematics	<ol style="list-style-type: none"> 1) 38 publications in peer-reviewed journals. 2) 58 papers presented at national and international conferences. 3) Winner of the Russian State Prize (1986) 4) 4 awards of CSIR for outstanding individual and team achievements in science and technology 	<p>Prof Shatalov graduated Moscow Baumann Technical State University (1975, MTEK in Mechanical Engineering) and Moscow Lomonosov University (1979, Master Diploma in Applied Mathematics), PhD in Analytical Dynamics (1983).</p> <p>Appointed as Professor Extraordinaire at TUT (2006).</p> <p>Students supervision: Graduated (DTech) 2 (MTech) 6 Current Supervision (DTech) 3 (MTech) 2 External Examiner for PhD and MSc: University of Pretoria, WITS</p> <p>Referee in Journals: IJSS (International Journal of Solids and Structures, USA) and</p>	<p>Tel: 012 841 2974 (W)</p> <p>012 803 9019 (H)</p> <p>Fax: 012 841 3895</p> <p>E-mail: mshatlov@csir.co.za</p>

				JSV (Journal of Sound and Vibrations, USA)	
Prof TH Fay	Mathematics and Statistics	Topological groups, digital image processing, category theory, abelian and nonabelian groups, solving differential equations numerically, undergraduate research	<ol style="list-style-type: none"> 1) 2003 Fulbright senior scholar. 2) 1999 TUT research team member of the year. 3) NASA summer faculty fellow (2 years). 4) 1995-2000 Winter School in Mathematical Technology, TP. 5) US Navy "Expert", 183 – 1990' 6) Univ. So. Miss. (USM) Instructional Award 2001. 7) USM. Research Award 1986, 1883-84. 8) 150 papers in peer reviewed journals or conference proceedings, 9) 19 technical reports. 10) Numerous international colloquia and invited addresses, conference presentations , 11) Regular visitor to UCT, UNISA, UP, TP, TUT 	<p>UCT 1976-77 senior lecturer USM 1979-81 Associate Professor USM Full Professor 1982-2002 USM Professor Emeritus 2003-present 2001 TP Professor Extraordinary 2003-2008 TUT Professor Extraordinary Directed/co-supervised 3 Doctoral students TUT Directed 1 PhD student USM 20 Masters students TP and USM</p>	thfay@hotmail.com
Prof E Genis	Mathematics and Statistics	Quality management; Curriculum development	<ol style="list-style-type: none"> 1) One publication in international quality journal for higher education. 2) Two papers at international conferences (Birmingham & Ottawa) 	<p>Dr Genis , (previously Professor Extraordinaire at TUT) was previous to retirement the Chief Director: Quality at TUT, and an auditor for the HEQC.</p> <p>As part-time research supervisor she continues to</p>	<p>Tel: 058 256 1295 Cell: 082 889 3389</p>

				act as external examiner for SA universities at post-graduate level. In the Dept of Mathematics and Statistics she has recently supervised four M Tech students. Currently she acts as supervisor for two Ph D and two M Tech students.	
Prof JC Greeff	Mathematics and Statistics	Introduction of technology into teaching of Mathematics at undergraduate and graduate level. Application of Mathematical modelling to population dynamics.	<ol style="list-style-type: none"> 1) 12 peer-reviewed papers in ISI listed journals. 2) 19 oral conference participations (of which 15 international), with eight peer-reviewed/ refereed conference proceeding publications. 3) Faculty representative to TUT Senate 2008/2009. 4) Member of AMESA, SAMS, IAMI, FRIC. 5) Junior Researcher of the Year 1999 (Fac. of Science). 6) TUT Research Team of the Year 1999 (Member) 7) TUT Woman Researcher of the Year 2006. 8) UNITECH Congress Community Project of the Year Award 2005 (Project leader). 9) NRF Grant reviewer and Panel member 2002 – 2008. 10) Reviewer for the journal Ecological Modelling and TIME 2008 Conference proceedings. 11) NRF grant holder 1998- 	Appointed at TUT (then Pretoria Technikon) in 1989 as lecturer, and later senior lecturer. Obtained MSc from the University of Southern Mississippi in 1999 and DTech (Mathematical Technology) in 2004. Acted as HOD of Dept Mathematical Technology on three occasions. Appointed in the post of associate professor in 2006. Supervised/co- supervised three master's students (completed) and two doctoral students (in process). DRIC member (ex-officio). FRIC representative for Department of Mathematics and Statistic. Appointed to the TUT senate for 2008/2009.	<p>Tel: 012 382 6326</p> <p>Fax: 012 382 6114</p> <p>Cell: 082 902 6164</p> <p>Email: greeffjc@tut.ac.za</p>

			2009		
Mr KA Motsepe	Mathematics and Statistics	ODE's Special Functions & Higher Special Functions	<ol style="list-style-type: none"> 1) 2 Papers, one each presented at national and international conferences. 2) One peer-reviewed paper to be published in the TIME-2008 Proceedings. 3) Received grants (NRF) to the amount of R27000 since 2002 	Mr Motsepe was appointed in 2002 as Lecturer. Graduated with BSc(hons) (Mathematics) in 1996 and with MTech (Mathematical Technology) in 2008.	<p>Tel: 012 382 5224</p> <p>Fax: 012 382 5226</p> <p>Cell: 0822910028</p> <p>Email: motsepeka@tut.ac.za</p>
Dr CJ Louw	Mathematics and Statistics	Mathematics education, Mat1 and Mat2	<ol style="list-style-type: none"> 1) Publishing a chapter in a monograph in 2001 2) Published 2 articles in accredited journals. 3) Published a chapter in a peer reviewed book in 2008 4) Team received a CHE competitive grant of R50 000 5) One conference proceeding in a reviewed proceeding 6) One paper accepted for publication in 2009. 7) Presented 5 local conference papers and 4 international conference papers 	Dr Louw was appointed in 1992 as lecturer at TNG. She graduated at UP with M.Ed (Cum laude) in 2003. Became senior lecturer in 2003. Completed PhD in 2006 at UP. Has supervised 1 MTech student successfully. Serve on DRIC of Dept Math and Stats as well as DRIC Agric. Was nominated by EXCO to do a through-put study for the Faculty of Science. Appointed as examiner for Mat2.	<p>Tel 012 382 5224</p> <p>Fax: 012 382 5226</p> <p>Cell: 072 3686 259</p> <p>E-mail: louwcj@tut.ac.za</p>
Dr J Mwambakana	Mathematics and Statistics	Applied Mathematics Mathematics Education and modeling	<ol style="list-style-type: none"> 1) Laurel Award the Research Team 1999. 2) Published 5 accredited journal articles with students and colleagues and 2 refereed conference proceeding publications. 3) Presented 5 papers at 	Dr JN Mwambakana was appointed at TUT (then Pretoria Technikon) in 1998 as a cadet and latter on as a junior lecturer, Lecturer and senior lecture. She obtained the following qualifications: Diploma in	<p>Tel 012 382 6408</p> <p>Fax: 012 382 6441</p> <p>Cell: 0827743113</p>

			<p>international and 10 at national conferences and or symposia.</p> <p>4) NRF grant holder 1999-2008</p> <p>Member of SAMSA and SAMS.</p>	<p>Biology Chemistry and Education (DRC in 1987); B Tech Chemistry (Pta in 1997); MS (USA in 2001) and DTech (Mathematical Technology) in 2008. She acts as external examiner at UJ (Numerical Analysis at honours level) and is the coordinator for the Foundation Mathematics (since 2005). She currently acts as co-supervising for one MTech student.</p>	<p>E-mail: mwambakanajn@tut.ac.za</p>
Dr PH Kloppers	Mathematics and Statistics	Linear models	<p>1) Published 5 articles in accredited journals and was co-author of a book.</p> <p>2) Presented 3 papers at international and 7 at national symposia</p>	<p>Appointed at TUT (then Pretoria Technikon) in 1979 as lecturer, and later senior lecture and principal lecturer.</p> <p>ND: Agriculture ,BSc., BSc.(hons), MS, DTech ath Tech)</p> <p>Currently doing research on weighted sum models</p>	<p>Tel 012 382 6399</p> <p>Fax: 012 382 6441</p> <p>Cell: 083 3109556</p> <p>E-mail: kloppersphj@tut.ac.za</p>
Ms CE Coetzee	Mathematics and Statistics	Vibrations	<p>1)Two papers accepted for publication in 2009</p> <p>2) Co-organizer of an international Conference hosted by TUT (TIME2008)</p> <p>3) Six Papers presented at national and international conferences</p>	<p>Ms Coetzee was appointed as a lecturer in 1981. Currently she is Head of the Department Mathematics and Statistics. She acts as external moderator and reviewer for other tertiary institutions. She is part of the group doing research on gyroscopic effects in vibrating and rotating bodies</p>	<p>Tel.012 382 6358</p> <p>Fax 012 382 6114</p> <p>Email: coetzeece@tut.ac.za</p>

Mr D Stables	Mathematics and Statistics	Quality management systems, quality auditing, quality tools and techniques, continual improvement	<ol style="list-style-type: none"> 1) Presented papers every year for past 11 years at the SAATCA auditors national conference. 2) Delivered papers at international conferences in Mauritius (2005), Tripoli (2007). Represented Africa at IAEA/ UNIDO QMS Workshop – Vienna (2005). 3) Represented SA on auditing in Paris (2008), Tokyo (2009). 	<p>Mr Stables has a Masters degree in Quality (MTech: Quality)</p> <p>Certified QMS ‘Expert’ with the IAEA (International Atomic Energy Agency) and the UNIDO (United Nations Industrial development Organisation); Received the SA Society for Quality (SASQ) annual Quality Award, Pretoria Branch, in 2004; Developed and ran the first public Quality Auditor training in 1989, and was the second course provider to be SAATCA accredited; Represented SA on ISO/TC 176 (International Technical Committee responsible for the ISO 9000 family of Standards); Represents the Higher Education and the Automotive fields on National Technical Committees for:</p> <ul style="list-style-type: none"> - Quality Management Systems – ISO 9000 family (TC 176) - Environmental Management Systems – ISO 14000 family (TC 207) - Social Responsibility – ISO 26000 (TC 100) 	<p>012 382 6272</p> <p>stablesdj@tut.ac.za</p>
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