WALTER SISULU UNIVERSITY

FACULTY OF NATURAL SCIENCES NEWSLETTER: FEBRUARY 2025

Albert Modi,
Dean of Natural Sciences, Walter Sisulu University



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We will explore the importance of a strong work ethic and positive attitude, their benefits in the workplace, and how to develop and cultivate these qualities.

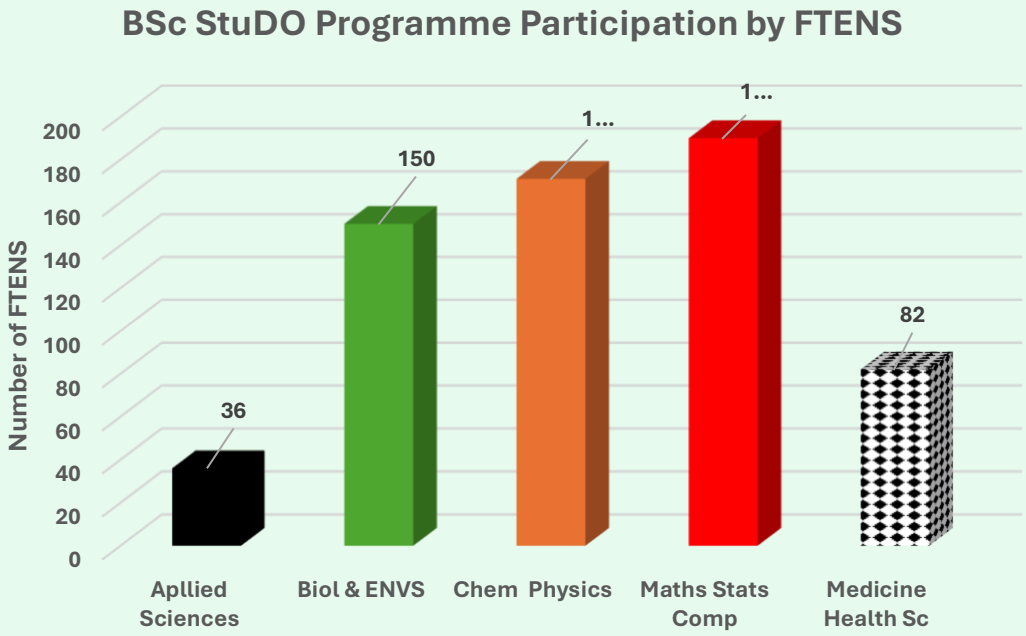


Table of Contents

Administration of student admission and registration 5
Teaching and learning: enhancement of student life 7
Teaching and learning: enhancement of staff life 10
Research and innovation 11
Research-led community engagement 13
Appendix 1. Journal publication record 15

Executive Summary



Our primary mission is based on the need for staff human capacity development: improved support systems to enhance student and staff performance. We aim to increase efforts to galvanise support and collaboration with other institutions and government. The February Newsletter is characterised by the focus on sustained developments regarding management and administration. These activities continued to make us pay extra attention to student support services. Registration of First Time Entry Students (FTENS) is our major area of success. Registration of returning students is satisfactory despite the institutional and national challenges. Postgraduate registration exceeds the norm for this time of the year. Prospects for implementation of milestone-focussed teaching and learning plans are encouraging. Our research output data have not shifted significantly since January. We are happy to announce some individual and group success stories for the month of February. At the end of March, we shall publish the first FNS Quarterly Report for 2025. I trust that individuals and line managers have begun to test the faculty key performance area (KPA) management template for assessment and evaluation of our individual and collective efforts. If we engage honestly, we will provide valid matrices for internal use by WSU, and the FNS Advisory Board. We must gain the respect of external stakeholders, collaborators, partners and even competitors in the rapidly evolving terrain of Natural Sciences. There are significant global discoveries in areas like synthetic biology, nanotechnology, gravitational waves, and climate science. These developments are crucial not just for theoretical understanding but also for practical application in everyday life. Simultaneously, as we pay attention to the focussed KPA evaluations this year, let us also increase our efforts to collate information regarding publication metrics (number, citation counts, impact factor, h-index), research grants (amounts, sources and collaborations) and community engagement (professional networks, policy influence and public engagement). I express my compliments to FNS staff. The enthusiastic attitude you bring to work serves as a great remedy for our individual and collective wellness. Rules and compliance are important. Greater focus on core values will allow our students and staff to develop an innate recognition of the need to always operate ethically.

Administration of student admission and registration

For the 2025 academic year, the faculty received 5218 FTEN applications. The 2025 enrolment target is 882 students across all qualifications (Table 1). This number is approximately 32% of the total enrolment expectation for the year (2800). The faculty has 47 undergraduate (including Diploma) and postgraduate (including Advanced Diploma) programmes (Figure 1). All undergraduate programmes are duplicated as Extended Qualifications (extra year of study, data not shown).

By the end of February, the faculty has registered 779 FTENS (18% greater than the 660 quota) (Figure 2). The numbers of registered students at higher levels than FTENS include returning students and transfers from other programmes of the faculty, WSU and elsewhere. Figures for the students who completed their degrees for graduation in May 2025 (or later in the year) will be approved by Senate in March.

Table 1. FNS student enrolment targets for 2025

Qualifications	Number of students
Diploma in Analytical Chemistry	40
Diploma in Analytical Chemistry (ECP)	50
Diploma in Consumer Science in Food and Nutrition	20
Diploma in Consumer Science in Food and Nutrition (ECP)	50
Diploma in Pest Management	20
Bachelor of Science in Applied Mathematics	25
Bachelor of Science in Applied Mathematics (ECP)	20
Bachelor of Science in Applied Statistical Sciences	25
Bachelor of Science in Applied Statistical Sciences (ECP)	25
Bachelor of Science in Biological Sciences	30
Bachelor of Science in Biological Sciences (ECP)	25
Bachelor of Science in Chemistry	25
Bachelor of Science in Chemistry (ECP)	35
Bachelor of Science in Computer Science	30
Bachelor of Science in Computer Science (ECP)	25
Bachelor of Science in Environmental Studies	30
Bachelor of Science in Environmental Studies (ECP)	35
Bachelor of Science in Mathematics	25

Qualifications	Number of students
Bachelor of Science in Mathematics (ECP)	25
Bachelor of Science in Pest Management	25
Bachelor of Science in Pest Management (ECP)	20
Bachelor of Science in Physics	30
Bachelor of Science in Physics (ECP)	25
Advanced Diploma in Chemistry	25
Bachelor of Science Honours in Botany	10
Bachelor of Science Honours in Chemistry	10
Bachelor of Science Honours in Computer Science	8
Bachelor of Science Honours in Geography	15
Bachelor of Sciences Honours in Mathematics	8
Bachelor of Science Honours in Physics	8
Bachelor of Science Honours in Zoology	10
Master of Science in Botany	7
Master of Science Chemistry	7
Master of Science in Geography	8
Master of Science in Mathematics	12
Master of Science in Physics	4
Master of Science in Zoology	5
Doctor of Philosophy in Natural Sciences	25
Total	**822**

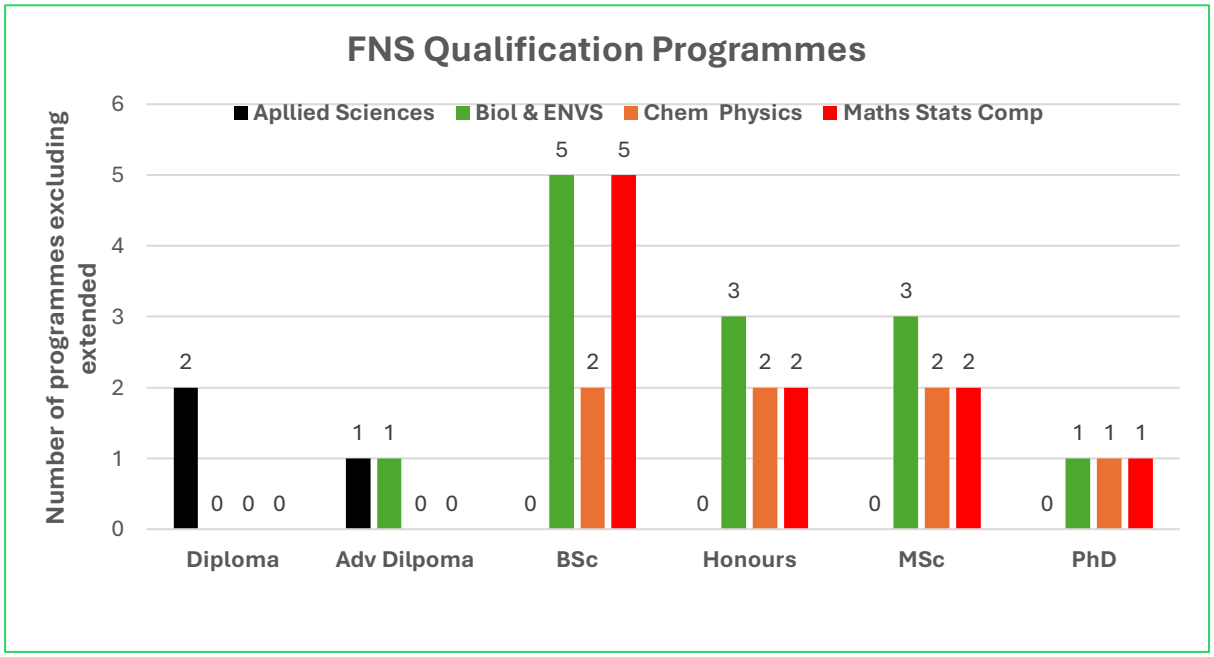


Figure 1. FNS programmes across qualifications (Diploma, Advanced Diploma, BSc, Honours, MSc and PhD) and four departments (Applied Sciences, Biological and Environmental Sciences, Chemistry and Physics, Mathematical Studies and Computing).

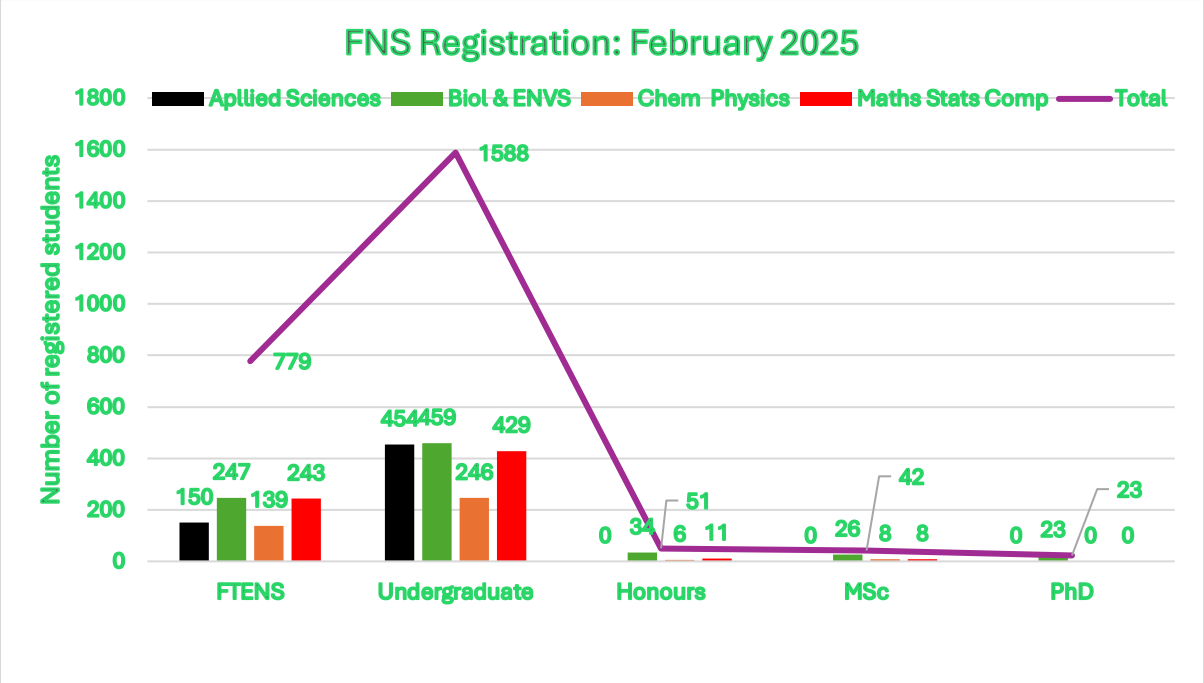


Figure 2. Number of registered students in FNS at first year (FTENS), undergraduate (returning), Honours, MSc and PhD levels.

Teaching and learning: enhancement of student life

Our new students (FTENS) were received officially through an orientation programme facilitated to introduce them to the Academic Services, Administration Support Processes, the Admission-Registration nexus, the Assessment-Exclusion nexus, Student Wellness, Library Services, Residence Life, Self-Discipline and Protection of WSU Brand. Orientation was also used to explain that WSU is a contact university. It was necessary to explain the meaning and relevance of online teaching models to make students aware of the approaches that will be used to render teaching and learning services (Table 2). On the Orientation Day, and following approval by the Board, the faculty introduced a new programme for student life enhancement in line with the UCDP projects 1 and 2. The programme is called Best Science Student From Day One (BSc StuDO). The aim is to infuse a competitive and positive attitude about self and the WSU brand. Students agreed to voluntarily write an equivalent of aptitude test within one week of commencement of lectures. Results will be subjected to a relational analysis using student matric points (Grade 12) as a second variable. Students will be informed about their performance and requested to participate in the faculty and WSU student life enhancement programmes, including (a) early peer to peer support, (b) department/faculty/WSU student ambassador activities, (c) faculty competitions for technology-infused African education, (d) community engagement and (e) potential access voluntary or part-time employment while studying. These

activities will be designed for purpose (age, gender, ability status), level of academic growth and availability of support and other resources. It seeks to use the 2025 FTEM cohort to test extra-curricular support activities until they graduate. A task team of young academics from all departments, led by Dr William Dzemo, was approved by the Board to manage the programme. About 70% of the faculty FTENS participated in the BSc StuDO initiation (aptitude) test, together with 82 FTENS registered in the Faculty Medicine and Health Sciences (Figure 3).

Table 2. Online teaching and learning models, curriculum approval basis for relevance, and expected application (utilisation) in the course of undergraduate (UG; 1st to 4th year) and postgraduate level (PG) study. The faculty views this approach as an important guide for students and staff.

Model	Description	Rule	Application level (%)				
			1st	2nd	3rd	4th	PG
Ad Hoc Online	On an as-needed basis	Not permissible at UG	0	0	0	0	20
Fully online	Entirely online, offering flexibility for students who cannot attend in-person classes	No. Senate approval required	0	0	0	0	20
Service	Outsourcing certain teaching services to third-party providers	Yes. For contract lecturers/special programmes with Senate approval	0	1	5	10	40
Partnerships	Specialized courses or programs	No. Not for undergraduate programmes; Senate approval	0	0	0	0	40
Competency-based	Student own pace, demonstrating mastery of specific skills or knowledge areas	Yes. Student Life Enhancement; UCDP approval of special projects; Not for examination	5	5	5	5	40
Blended/Hybrid	Combine online and face-to-face instruction, with the flipped classroom model having students learn new content online and apply it during in-person sessions	Yes. Currently recommended for senior undergraduate and postgraduate levels	10	20	30	40	40

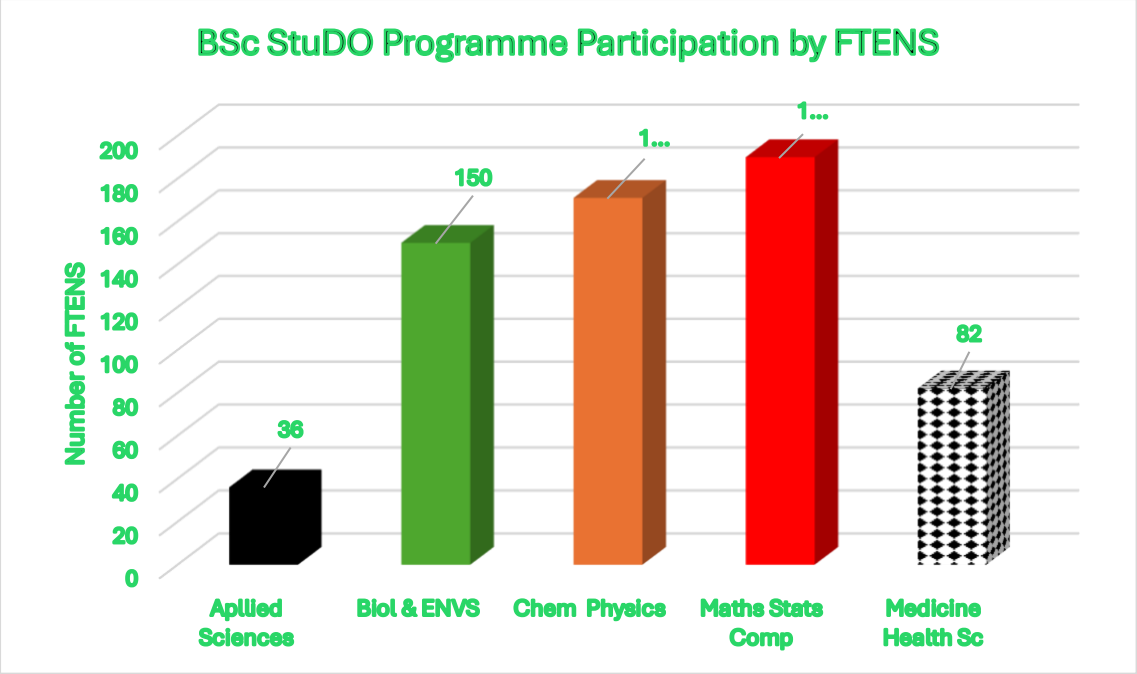


Figure 3. More than 70% of Faculty of Natural Science and 82 students from the Faculty Medicine and Health Science volunteered to join the new Best Science Student from Day One (BSc StuDO) programme aimed at identifying student support needs and opportunities to enhance performance in and out the classroom.



Figure 4. Faculty of Natural Sciences FTEN students on Orientation Day. Learning and responding.



Figure 5. FNS staff members of BSc StuDo programme marking FTEN initiation test aimed at identifying future leaders as early as they enter WSU.

Teaching and learning: enhancement of staff life

It is encouraging that many of our staff have responded to the first Teaching and Training Workshop "SMG, Teaching with Technology and Module Files". The Faculty Academic Development Officer, Mr Alfred Mapfumo diligently reaches out to staff to participate in this UCDP-funded programme. We appreciate the facilitation support provided by Ms Thando Mfiikoyi (Acting Manager, LtwT) and Mr Masilo Malema (Quality Assurance Directorate). The faculty expects all teaching staff to participate in this and many upcoming training workshops on the use of AI in teaching and learning. (Figure 6).



Figure 6. Faculty staff attended the first Teaching and Training Workshop "SMG, Teaching with Technology, and Module Files MG" in Postdam. Programme facilitator is Mr Alfred Mapfumo (far right).

Research and innovation

The faculty staff and students continue to make significant strides. Below I share some highlights.

- Staff are requested to confirm that their journal article submissions have reached the Research and Innovation (R&I) office by checking Appendix 1. Note that, the list is for journal articles only. The R&I Directorate needs more time to confirm the other forms of publications.
- We are excited about the success of FNS to win the nomination and grant (R5.4 million) to join the Department of Science Innovation and Technology National Research Nodes in Nano-Micro Manufacturing, under the leadership of Dr Batsirai Magunje. WSU joins CSRI, Stellenbosch University, Rhodes University, University of Pretoria and University of the Western Cape as a new member of the NMMF research collaborators (Figure 6)
- We are excited about the success of Dr Inam Yekwa in improving her NRF rating to C3 (Figure 7).

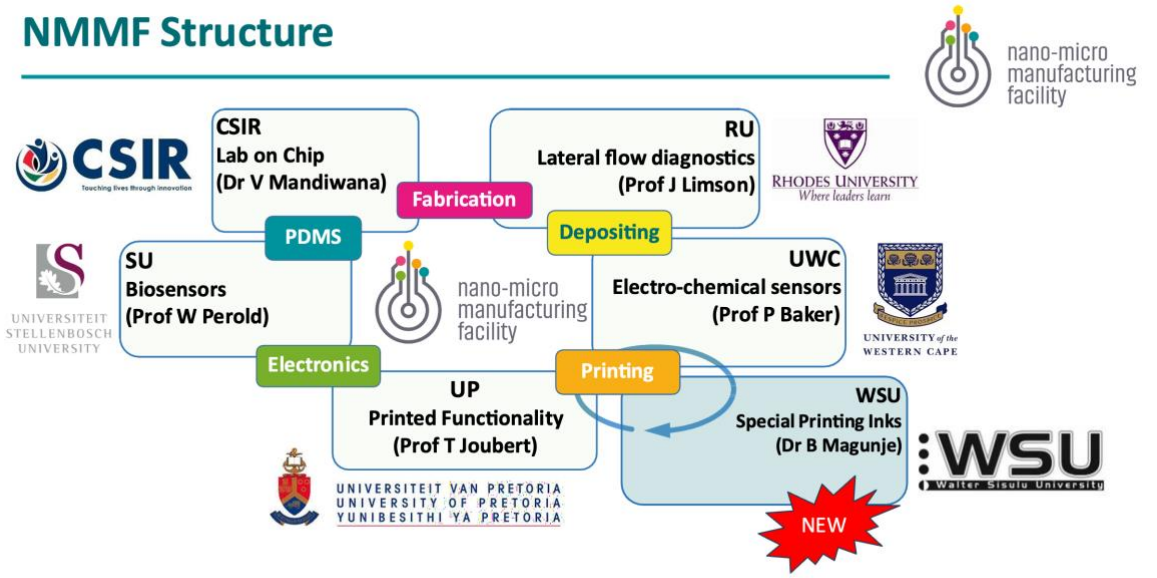


Figure 6. WSU is a new member of the DSIT NMMF Research Nodes in South Africa



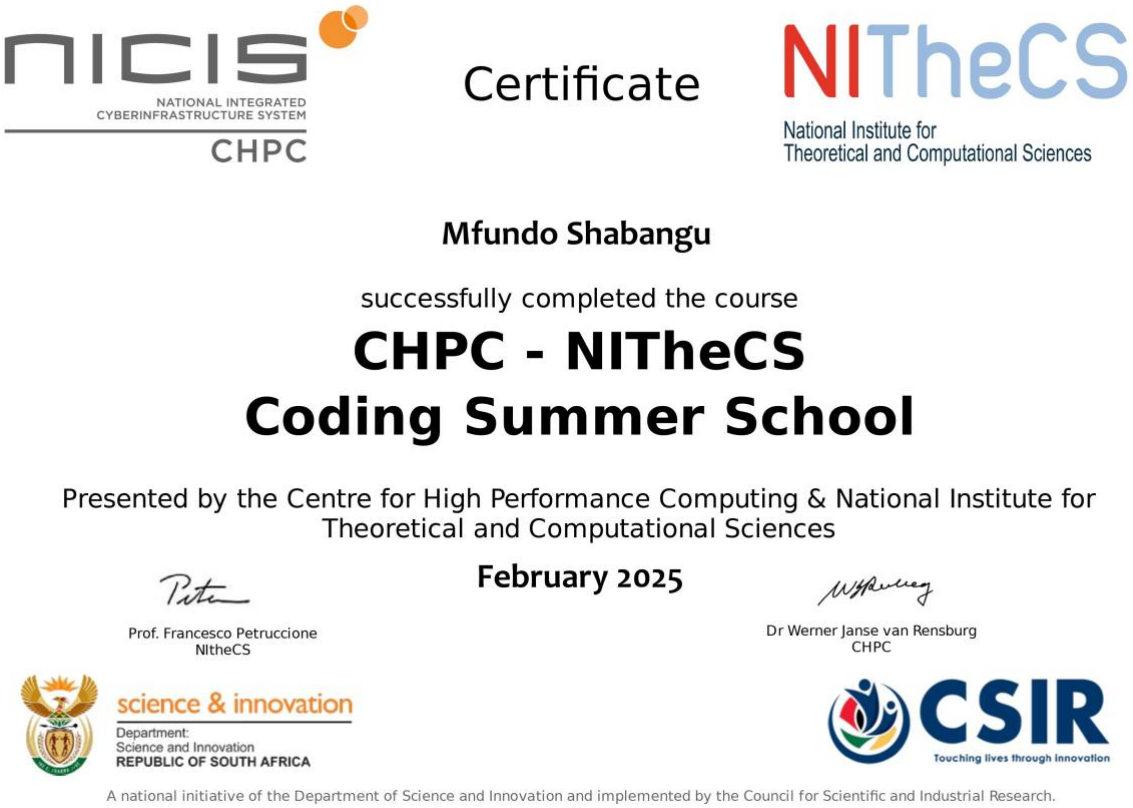
Figure 7. Dr Inam Yekwa received a C3 NRF rating

Research-led community engagement

Dr. N.J. Gumede (Principal Investigator) and Prof. Nxumalo (Co-Principal Investigator) undertook a research visit to the Istituto Nazionale Tumori Cancer Centre in Italy from 17 January 2025 to 31 January 2025 (Figure 8). This visit was supported by the National Research Foundation (NRF) grant under the Italy / South Africa Joint Research Programme (ISARP): Joint Research Projects (JRP) Funding Scheme. During this visit, they were accompanied by their MSc and PhD candidates who are performing advanced bioassay experiments by utilizing state-of-the-art high-throughput screening facilities at the Cancer Centre. Upon the completion of these bioassays, the two students will return to South Africa on 22 March 2025. As part of the science engagement component of the NRF-funded program, the Italian research group arranged a two-day presentation workshop, wherein all scientists and students presented their research findings. Dr. Gumede presented a scholarly paper delineating the design process of compounds currently undergoing testing by postgraduate students. This process employs reaction-based enumeration, docking, molecular dynamics simulation, and Free Energy Perturbation to prioritize design ideas for synthesis. The virtual drug-like design ideas were synthesized at Walter Sisulu University's (WSU) Organic Chemistry laboratories and subjected to validation through various spectroscopic and chromatographic techniques at the University of KwaZulu-Natal (UKZN) and the University of Limpopo (UL). A collaborative meeting was convened to deliberate on future experiments, including in vivo pre-clinical development, competitive inhibition, and coactivator assays. Furthermore, discussions encompassed plans for Budillon's group to seek funding from the Italian Health Ministry and European Union, while Dr. Gumede will endeavour to secure the Technology Innovation Agency's (TIA) seed-fund for subsequent funding, with the objective of fortifying collaboration and facilitating prospective joint initiatives.



Figure 8. On the left: Prof. A. Budillon (Scientific Director), Dr. S. Roca (Scientist), Middle: Dr. F. Bruzzesse (Director), on the right: Dr N.J. Gumede (Snr Lecturer – CPS at WSU), Prof. W. Nxumalo (Associate Prof. UL).



Appendix 1. Journal publication record

Surname	Initial	Academic Tittle	Department	Total Units Produced
Adeyemi	J	Postdoc	Chemical and Physical Sciences	0,1250
Adeyemi	J	Postdoc	Chemical and Physical Sciences	0,1000
Akah	RT	Postdoc	Biological and Environmental Sciences	0,3333
Amaku	JF	Postdoc	Applied Science	0,5000
Amaku	JF	Postdoc	Applied Science	0,5000
Amaku	JF	Postdoc	Applied Science	0,5000
Amaku	JF	Postdoc	Applied Science	0,5000
Amoo	OT	Postdoc	Risk and Vulnerability Assessment Centre	0,2500
Daniel	GM	Postdoc	Biological & Environmental Sciences	0,2000
Daniel	GM	Postdoc	Biological & Environmental Sciences	0,2500
Daniel	GM	Postdoc	Biological & Environmental Sciences	0,1111
Daniel	GM	Postdoc	Biological & Environmental Sciences	0,3400
Daniel	GM	Postdoc	Biological & Environmental Sciences	0,3333
Dejene	FB	Professor	Chemical & Physical Sciences	0,3333
Dejene	FB	Professor	Chemical & Physical Sciences	0,1667
Dejene	FB	Professor	Chemical & Physical Sciences	0,0400
Dejene	FB	Professor	Chemical & Physical Sciences	0,1429
Dejene	FB	Professor	Chemical & Physical Sciences	0,3333
Dejene	FB	Professor	Chemical & Physical Sciences	0,5000
Dejene	FB	Professor	Chemical & Physical Sciences	0,2500
Dejene	FB	Professor	Chemical & Physical Sciences	0,0833
Dejene	FB	Professor	Chemical & Physical Sciences	0,0833
Dejene	FB	Professor	Chemical & Physical Sciences	0,5000
Dejene	FB	Professor	Chemical & Physical Sciences	0,1667
Dejene	FB	Professor	Chemical & Physical Sciences	0,2000
Diniso	T		Chemical & Physical Sciences	0,1250
Diniso	T		Chemical & Physical Sciences	0,1000
Dube	E	Postdoc	Biological and Environmental Sciences	1,0000
Dube	E	Postdoc	Biological and Environmental Sciences	1,0000
Dube	E	Postdoc	Biological and Environmental Sciences	0,5000
Dube	E	Postdoc	Biological and Environmental Sciences	1,00
Dube	E	Postdoc	Biological and Environmental Sciences	0,5000
Dzemo	WD	Lecturer	Department of Biological and Environmental Sciences	0,2000
Dzemo	WD	Lecturer	Department of Biological and Environmental Sciences	0,2500

Surname	Initial	Academic Tittle	Department	Total Units Produced
Dzemo	WD	Lecturer	Department of Biological and Environmental Sciences	0,1700
Egbichi	M	Lecturer	Biological and Environmental Sciences	0,2000
Egbichi	M	Lecturer	Biological and Environmental Sciences	0,5000
Engwa	GA	Research Fellow	Biological and Environmental Sciences	0,1667
Enoh	JE	Postdoc	Biological and Environmental Sciences	0,3333
Enoh	JE	Postdoc	Biological and Environmental Sciences	0,3400
Enoh	JE	Postdoc	Biological and Environmental Sciences	1,0000
Enoh	JE	Postdoc	Biological and Environmental Sciences	0,5000
Etefa	HF	Postdoc	Chemical & Physical Sciences	0,3333
Etefa	HF	Postdoc	Chemical & Physical Sciences	0,2500
Etefa	HF	Postdoc	Chemical & Physical Sciences	0,5000
Etefa	HF	Postdoc	Chemical & Physical Sciences	0,5000
Etefa	HF	Postdoc	Chemical & Physical Sciences	0,5000
Faleni	N	Senior Lecturer	Applied Sciences	0,5000
Giwa	S	Postdoc	Applied Science	0,5000
Giwa	S	Postdoc	Applied Science	0,1667
Giwa	S	Postdoc	Applied Science	0,3333
Giwa	S	Postdoc	Applied Science	0,2000
Goswami	N	Professor	Department of Biological and Environmental Sciences	0,1650
Gumede	NJ	Senior Lecturer	Chemical & Physical Sciences	0,1429
Gumede	NJ	Senior Lecturer	Chemical & Physical Sciences	0,1111
Gumede	NJ	Senior Lecturer	Chemical & Physical Sciences	0,2000
Gumede	NJ	Senior Lecturer	Chemical & Physical Sciences	0,1667
Gwanya	HY	Lecturer	Biological and Environmental Sciences	0,2000
Gxaba	N	Lecturer	Department of Biological and Environmental Sciences	0,2000
Kabiti	H	Other (Contract Researcher)	Centre for Global Change	0,3333
Kakuli	MC	Lecturer	Mathematical Sciences and Computing	1,0000
Kakuli	MC	Lecturer	Mathematical Sciences and Computing	0,1700
Kakuli	MC	Lecturer	Mathematical Sciences and Computing	0,5000
Kar	P	Postdoc	Chemical and Physical Science	0,3333
Kar	P	Postdoc	Chemical and Physical Science	0,1667

Surname	Initial	Academic Tittle	Department	Total Units Produced
Kar	P	Postdoc	Chemical and Physical Science	0,3333
Kar	P	Postdoc	Chemical and Physical Science	0,3333
Kar	P	Postdoc	Chemical and Physical Science	0,5000
Kar	P	Postdoc	Chemical and Physical Science	0,3333
Kar	P	Postdoc	Chemical and Physical Science	0,3333
Kuria	SK	Senior Lecturer	Biological & Environmental Sciences	0,1250
Kuria	SK	Senior Lecturer	Biological & Environmental Sciences	0,1250
Kuria	SK	Senior Lecturer	Biological & Environmental Sciences	0,1429
Kuria	SK	Senior Lecturer	Biological & Environmental Sciences	0,1000
Maseme	MR	Senior Lecturer	Biological & Environmental Sciences	0,3333
Miya	GM	Lecturer	Chemical and Physical Sciences	0,1250
Miya	GM	Lecturer	Chemical and Physical Sciences	0,1250
Miya	GM	Lecturer	Chemical and Physical Sciences	0,1429
Miya	GM	Lecturer	Chemical and Physical Sciences	0,1429
Miya	GM	Lecturer	Chemical and Physical Sciences	0,1000
Modi	AT	Professor	Biological and Environmental Sciences	1,0000
Modi	AT	Professor	Biological and Environmental Sciences	0,1429
Nakin	MDV	Associate Professor	Biological & Environmental Sciences	0,2500
Nakin	MDV	Associate Professor	Biological & Environmental Sciences	0,2500
Ndhleve	S	Other (Contract Researcher)	Risk & Vulnerabiliy Science Centre	0,3333
Ndhleve	S	Other (Contract Researcher)	Risk & Vulnerabiliy Science Centre	0,2500
Ndlovu	N	Postdoc	Biological and Environmental Sciences	0,5000
Ndlovu	N	Postdoc	Biological and Environmental Sciences	0,5000
Niba	A	Professor	Biological and Environmental Sciences	0,5000
Niba	A	Professor	Biological and Environmental Sciences	0,5000
Niba	A	Professor	Biological and Environmental Sciences	0,5000
Niba	A	Professor	Biological and Environmental Sciences	0,5000
Nkeh-Chungag	BN	Professor	Biological and Environmental Sciences	0,1000
Nkeh-Chungag	BN	Professor	Department of Biological and Environmental Sciences	0,3333
Nkeh-Chungag	BN	Professor	Biological and Environmental Sciences	0,5000
Nkeh-Chungag	BN	Professor	Biological and Environmental Sciences	0,0909

Surname	Initial	Academic Tittle	Department	Total Units Produced
Nkeh-Chungag	BN	Professor	Biological and Environmental Sciences	0,0909
Nkeh-Chungag	BN	Professor	Biological and Environmental Sciences	0,5000
Nkeh-Chungag	BN	Professor	Biological and Environmental Sciences	0,1700
Nqoro	X	Postdoc	Applied Science	0,5000
Okuthe	GE	Associate Professor	Biological & Environmental Sciences	0,5000
Okuthe	GE	Associate Professor	Biological & Environmental Sciences	0,5000
Okuthe	GE	Associate Professor	Biological & Environmental Sciences	0,5000
Okuthe	GE	Associate Professor	Biological & Environmental Sciences	1,0000
Okuthe	GE	Associate Professor	Biological & Environmental Sciences	0,5000
Onomu	A	Postdoc	Biological & Environmental Sciences	0,5000
Onomu	A	Postdoc	Biological & Environmental Sciences	0,5000
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,3333
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,1429
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,1250
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,1250
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,3333
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,5000
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,3333
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,1429
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,3333
Oriola	AO	Postdoc	Chemical and Physical Sciences	1,0000
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,3333
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,0909
Oriola	AO	Postdoc	Chemical and Physical Sciences	0,1000
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,3333
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,1250
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,1250
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,3333
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,3333
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,1429
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,3333
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,3333
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,2000
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,1429
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,0909
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,1000
Oyedeji	AO	Professor	Chemical and Physical Sciences	0,2000
Panicker	RM	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Panicker	RM	Senior Lecturer	Mathematical Sciences and Computing	0,3400

Surname	Initial	Academic Tittle	Department	Total Units Produced
Phokwe	OJ	Lecturer	Biological & Environmental Sciences	0,2000
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2500
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2500
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2500
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2000
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2500
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,5000
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	1,0000
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,5000
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,5000
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2500
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	1,0000
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2500
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2500
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,2500
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333

Surname	Initial	Academic Tittle	Department	Total Units Produced
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Shukla	R	Senior Lecturer	Mathematical Sciences and Computing	0,3333
Sigauke	LT	Professor	Chemical & Physical Sciences	0,2000
Sinkala	W	Associate Professor	Mathematical Sciences and Computing	0,3333
Sinkala	W	Associate Professor	Mathematical Sciences and Computing	0,5000
Taziwa	RT	Senior Lecturer	Applied Science	0,3333
Taziwa	RT	Senior Lecturer	Applied Science	0,5000
Taziwa	RT	Senior Lecturer	Applied Science	0,2500
Taziwa	RT	Senior Lecturer	Applied Science	0,1667
Taziwa	RT	Senior Lecturer	Applied Science	0,5000
Taziwa	RT	Senior Lecturer	Applied Science	0,3333
Taziwa	RT	Senior Lecturer	Applied Science	0,5000
Taziwa	RT	Senior Lecturer	Applied Science	0,5000
Taziwa	RT	Senior Lecturer	Applied Science	0,2500
Taziwa	RT	Senior Lecturer	Applied Science	0,2000
Taziwa	RT	Senior Lecturer	Applied Science	0,5000
Yekwayo	I	Senior Lecturer	Biological and Environmental Sciences	0,3333