

NAME OF EQUIPMENT	YEAR EQUIPMENT ACQUIRED	NRF FUNDING PROGRAMME	NRF FUNDED EQUIPMENT UID NUMBER	OTHER FUNDING AGENCY NAME	OTHER FUNDING AGENCY REFERENCE NUMBER	RAND VALUE OF EQUIPMENT	EQUIPMENT/GRANT HOLDER	PHYSICAL LOCATION OF EQUIPMENT	WHAT THE EQUIPMENT IS USED FOR	CONTACT DETAILS OF EQUIPMENT/GRANT HOLDER
3500 Series Genetic Analyzer	2013			DHET Infrastructure	Well Founded FC6 (2012)	R1 499 306,15	Prof F Bux	Institute for Water and Wastewater Technology	To determine the nucleotide order of a given DNA fragment	Mr Julian Arran Tel: +27 31 373 6705 Email: juliana@dut.ac.za
Accutrend Plus Meter	2016/10/15			RDG – Food and nutrition security	RDG	R3 720,00	Prof C Napier	Department of Food and Nutrition	To do biomedical tests	Prof C Napier, Department of Food and Nutrition
AKTA purifier 100: A multi-purpose chromatography system	2010/2011	WFL	75465			R1 160 000,00	Prof S Singh	Biotechnology and Food Technology	Purification of proteins and peptides	Executive Dean, Faculty of Applied Sciences
ApoTome Imaging System	2012	NEP	74427			R425 000,00	Prof F Bux	Institute for Water and Wastewater Technology	For contrast enhancement in fluorescence microscopy	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Atomic Absorption Spectrophotometer	2014	NEP	88074			R541 728,00	Prof F Bux	Institute for Water and Wastewater Technology	Heavy metals analysis	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
BD FACS ARIA III Flow Cytometer	2014/2015	NEP	93211			R5 763 006,00	Prof T A Stenstrom	Institute for Water and Wastewater Technology	Employed in cell counting, cell sorting, biomarker detection	Mr Julian Arran Tel: +27 31 373 6705 Email: juliana@dut.ac.za
Biolog Omnilog Gen III Combo Plus System	2013/2014	NEP	86059	Photo Diode Array detec		R1 732 546,00	Prof B Odhav	Biotechnology and Food Technology	Identification and phenotypic characteristics of microorganisms. Phenotypic microarray of microbes	Executive Dean, Faculty of Applied Sciences
Capillary Electrophoresis/Agilent 7100 Electrophoresis System	2009/2010	NEP	R72 326,00			R636 254,00	Prof K Bisetty	Chemistry	Estimation of affinity constants and protein binding interaction studies.	Prof K Bisetty, Department of Chemistry, bisettyk@dut.ac.za
CHNS Elemental Analyser	2014	NEP	88074			R887 254,71	Prof F Bux	Institute for Water and Wastewater Technology	Determination of carbon, hydrogen, nitrogen and sulfur in organic matrices and other types of materials	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Densitometer. Refractometer. Interferometer	2010/2011	WFL	75454	none		R 745 395.33	Prof N Deenadayalu	Chemistry	Physicochemical data acquisition	Prof N Deenadayalu, email: NirmalaD@dut.ac.za, Department of Chemistry extension 2781
Dynamic Mechanical Analyser	2007			Own fund		Approx. 1 million	Prof K Kanny	Mechanical Engineering (S4 L0)	Thermo-mechanical & Rheological properties of materials	Prof K Kanny, Department of Mechanical Engineering
Gas Chromatography/Mass spectrometer	2015	NEP	93191			R1 930 058,38	Prof F Bux	Institute for Water and Wastewater Technology	Analysis of lipids and gasses	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
HPLC with ELSD Detector. Multifors Fermentor/ Bioreactor	2007/2008	NEP	65283			R1 304 137,00	Prof S Singh	Biotechnology and Food Technology	Analysis of carbohydrates, vitamins, sterols, organic acids etc	Prof S Singh, Executive Dean, Faculty of Applied Sciences
Hybridization System	2011	WFL	75452			R108 000,00	Prof F Bux	Institute for Water and Wastewater Technology	Hybridizing fluorescently labelled probes for microbial analysis	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Ion Chromatograph system	2014	NEP	88074			R1 475 175,96	Prof F Bux	Institute for Water and Wastewater Technology	Analysis of trace metals and several elements in liquid and solid samples	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Magnetic Hotplate Stirrer	2016/10/14			RDG – Food and nutrition security	RDG	R3 392,00	Prof C Napier	Department of Food and Nutrition	To heat small amounts of food for tests	Prof C Napier, Department of Food and Nutrition
Microwave Digestion System	2011	WFL	75452			R180 000,00	Prof F Bux	Institute for Water and Wastewater Technology	Digesting samples prior COD analysis	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Moisture Analyser	2016/10/14			RDG – Food and nutrition security	RDG	R14 198,00	Prof C Napier	Department of Food and Nutrition	To analyse the moisture levels in food	Prof C Napier, Department of Food and Nutrition
Multi N/C 3100 Analyser	2012	NEP	78568			R430 029,80	Prof F Bux	Institute for Water and Wastewater Technology	Measurement of TOC, NPOC, TC, TIC, POC and TNb in water samples	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
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Oxitop® Biological Oxygen Demand	2012	WFL	75452			R70 000,00	Prof F Bux	Institute for Water and Wastewater Technology	Measuring BOD of the water and wastewater samples	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Ph Meter	2016/10/14			RDG – Food and nutrition security	RDG	R5 500,00	Prof C Napier	Department of Food and Nutrition	To test PH	Prof C Napier, Department of Food and Nutrition
Precision Scale	2016/10/14			RDG – Food and nutrition security	RDG	R7 500,00	Prof C Napier	Department of Food and Nutrition	To weigh small quantities	Prof C Napier, Department of Food and Nutrition
Pulse Amplitude Modulation (PAM) Fluorometer	2012	NEP	78568			R305 497,20	Prof F Bux	Institute for Water and Wastewater Technology	Measuring modulated chlorophyll-a (chl-a) fluorescence in the background of high light intensities	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Scanning Electron Microscopy	2012/2013			RIBF		Approx. 6 million	Prof K Kanny	Mechanical Engineering (S3 L0)	Morphological, chemical and elemental analysis of biological and non-biological samples	Prof K Kanny, Department of Mechanical Engineering
Shimadzu LC-MS 2020 with a SPD-M20A Photo Diode Array detector (upgrade)	2011/2012	NEP	78578			R1 139 994,00	Prof B Odhav	Biotechnology and Food Technology	Identification, separation and quantification of components in liquid samples	Professor, Dept of Biotechnology & Food Technology
Simultaneous DSC and TGA	2007			Own fund		Approx. 1 million	Prof K Kanny	Mechanical Engineering (S4 L0)	Thermal properties of materials	Prof K Kanny, Department of Mechanical Engineering
Thermo scientific Gallery Water Analyser	2011	WFL	75452			R360 000,00	Prof F Bux	Institute for Water and Wastewater Technology	Determination of water and wastewater characteristics	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Universal Tensile Tester (Criterion - 30kN)	2013			Own fund		Approx. 400000	Prof K Kanny	Mechanical Engineering (S5 L1)	Tensile, flexural, compression and shear properties of materials	Prof K Kanny, Department of Mechanical Engineering
Universal Tensile Tester (Landmark - 100kN)	2010			Own fund		Approx. 800000	Prof K Kanny	Mechanical Engineering (S5 L1)	Tensile, flexural, compression and shear properties of materials	Prof K Kanny, Department of Mechanical Engineering
Yoghurt Maker	2016/01/16			PD 01 – Prof C Napier	PD01	R9 440,62	Prof C Napier	Department of Food and Nutrition	To make yogurt	Prof C Napier, Department of Food and Nutrition
Field Flow Fractionation Coupled with Inductively Coupled Plasma-Mass Spectrometer	2017	NEP	105627	none	RDG	6,240,000	Prof K Bisetty	Institute for Water and Wastewater Technology	FFF is a size separation technique and coupled with the ICP-MS, enables the determination of size and elemental composition of complex, polydisperse and chemically heterogeneous engineered nanoparticles.	Prof K Bisetty, Department of Chemistry, bisettyk@dut.ac.za
Agilent 1260 Prime UHPLC with Ultivo Triple Quadrupole LC/MS System	2018	NEP	116122			4,179,245	Prof F Bux	Institute for Water and Wastewater Technology	Determination of chemical constituents of water and wastewater	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za
Multi complimetry instruments Big data machine multi processor with distributed file system and expanded memory	2019	NEP	116144	DUT	Student Levies	1,539,583	Prof RC Millham	Department of Information Technology	Multi complimetry instruments, Big data machine multi processor with distributed file system and expanded memory	Prof RC Millham, Tel: +27 31 373 5542, Department of Information Technology, richardm1@dut.ac.za
Qx200™ Autode™ Droplet Digital™ PCR System	2016/2017	NEP	105721			2,102,190	Prof F Bux	Institute for Water and Wastewater Technology	Determination of biological populations in water and wastewater	Mr Ismail Rawat Tel: +27 31 373 2346 Email: rawati@dut.ac.za