

**KENYATTA UNIVERSITY  
PHYSICS DEPARTMENT  
STATUS OF POSTGRADUATE STUDENTS**

<b>S. No.</b>	<b>Reg. No./Name</b>	<b>Title of the Thesis</b>	<b>Supervisors</b>	<b>Status</b>
1	I56/CE/15631/2005 Tuwei Abraham Kirwa	Design and fabrication of an electronic system for pressure and temperature measurement I thin film deposition system	Dr. P. M. Karimi Dr. D. M. Wamwangi	Graduated in December 2011
2	I56/CE/11180/2007 Kipnetich Ketui Daniel	Design and fabrication of a computer based firefighting system automated using Labview	Dr. P. M. Karimi Dr. A. S. Merenga	Graduated in December 2011
3	I56/15646/2005 Fanuel Mugwang'a Keheze	Characterization of $Cu_xO_y-ZnO:Al$ P-N junction for solar cell applications	Dr. P. M. Karimi Dr. W. Njoroge	Graduated in December 2011
4	I56/CE/11181/2007 Muga Charles Onyango	Characterization of $Sn_xSe_y-ZnO:Al$ P-N junction for solar cell applications	Prof. J. Okumu Dr. W. Njoroge	Graduated in December 2011
5	I56/10386/2007 Omaiyo Enock Osoro	Characterization of $Cu_xO_y-ZnO:Sn$ P-N junction For solar cell applications	Dr. W. Njoroge	Graduated in December 2011
6	I56/12088/2009 Naftali Kagiri Kimani	Study of strongly star-forming galaxies: their physical characteristics as a function of morphology and IR-luminosity	Dr. N. O. Hashim Dr. P. Vaisanen	Graduated in December 2011
7	I56/10390/2007 Ng'ang'a Benson Wang'ombe	A numerical simulator to estimate hydrological parameters of a fracture using fluorescein thermal decay correction	Dr. W. Ambusso Dr. Peter Omenda Prof. I. V. S. Rathore	Graduated in December 2011
8	I56/15645/2005 Masinde T. Sangura	Multivariate chemometric analysis of radionuclide and heavy metal fluxes in shore sediment at port Victoria, Kenya	Dr. N. O. Hashim Dr. H. K. Angeyo	Graduated in June 2012
9	I56/15633/2005 Wilson M. Namasaka	Simulation of the cosmic ray muon charge ratio at high energy from 3 to 10 TeV	Dr. N. O. Hashim	Graduated in June 2012
10	I56/12236/2009 Mosiori Cliff Orori	Electrical and optical characterization of $Cd_xZn_{1-x}S$ and PbS thin films for photovoltaic applications	Dr. W. N. Njoroge Prof. J. Okumu	Graduated in December 2012
11	I56/CE/10382/2007	Mechanical, diffusion and degradation properties of	Dr. A. S. Merenga	Graduated on 5 <sup>th</sup>

	Otieno George Were	blends of cellulose and recycled low density polyethylene	Dr. C. M. Migwi	July 2013
12	I56/CE/11500/2007 Mbithi Nelson Matheka	Mechanical properties and thermal degradation of blends of bitumen and cellulose	Dr. A. S. Merenga Dr. C. M. Migwi	Graduated in December 2012
13	I56/CE/11192/2007 Agan Paul Okelo	Mechanical, diffusion and degradation properties of high density polyethylene and cellulose blends	Dr. A. S. Merenga Dr. C. M. Migwi	Graduated on 5 <sup>th</sup> July 2013
14	I56/CE/14130/2009 Riara Martin Munene	Effect of fungi species <i>Aspergillus niger</i> on mechanical, diffusion and thermal degradation properties of blends of cellulose and low density polyethylene	Dr. A. S. Merenga Dr. C. M. Migwi	Graduated in December 2012
15	I56/CE/11985/07 Geoffrey Nyandiko Mayaka	Measurement and Multivariate chemometric analysis of radon concentration in geothermal fluids associated with high background radiation areas	Dr. N. O. Hashim Dr. H. K. Angeyo	Graduate in July 2014
16	I56/CE/11175/2007 Langat Geoffrey Kipkemoi	Gravity survey for geothermal exploration in Menengai geothermal area, Kenya	Dr. W. Ambusso Prof J. Okumu	Graduated on 5 <sup>th</sup> July 2013
17	I56/CE/11176/2007 Kemei Josphat	Ground magnetic survey for geothermal exploration in Menengai area, Kenya	Dr. W. Ambusso Prof. J Okumu	Graduated on 5 <sup>th</sup> July 2013
18	I56/CE/14128/2009 Langat K. William	Gamma ray spectroscopy analysis of sedimental deposits at the shores of Lake Nakuru, Kenya	Dr. N. O. Hashim Dr. W. Ambusso	Graduated on 5 <sup>th</sup> July 2013
19	I56/CE/11194/2007 Waswa Michael Nakitare	Microbial effect by <i>Aspergillus niger</i> on mechanical, diffusion and thermal properties of high density polyethylene/cellulose blend	Dr. A. S. Merenga Dr. C. M. Migwi	Notice of submission given
20	I56/20426/2010 Morko Kwembur Isaac	Design and fabrication of current-voltage curve meter for electrical characterization of photovoltaic modules	Dr. M. K. Munji Dr. P. M. Karimi	Graduated in December 2013
21	I56/CE/15643/05 Amosi N. Chilai	Calculation of natural radionuclide spectral features of NaI detectors using Monte Carlo technique	Dr. N. O. Hashim Dr. H. K. Angeyo	Presented his proposal
22	I56/20423/2010 Muchira Irene Wanjiku	Crystallization kinetics of In <sub>x</sub> Se <sub>y</sub> thin films for phase change memory (PRAM) applications	Dr. W. K. Njoroge Dr. P. M. Karimi	Graduated on 5 <sup>th</sup> July 2013
23	I56/CE/12771/2009	Characterization of tin telluride (Sn <sub>x</sub> Se <sub>y</sub> ) thin film	Dr. W. K. Njoroge	Proposal

	Nancy Wanja Ileri	for phase change memory (PCM) application	Dr. P. M. Karimi	submitted
24	I56/CE/11186/2007 Korir Patrick Kiprono	Mechanical, diffusion and degradation behaviour of polypropylene and cellulose blends	Dr. A. S. Merenga Dr. C. M. Migwi	Notice of submission given
25	I56/CE/11420/2007 Moustapha Kassim	Magnetic studies of iron ore mineral deposits in Mbeu area, Meru county	Dr. W. Ambusso Dr. C. M. Migwi	Graduated on 19/12/14
26	I56/10901/2008 Waweru Michael Maina	Characterization of a nitrogen doped zinc selenide material for optical fiber application for enhanced transmission window	Dr. W. K. Njoroge Dr. M. Munji	Proposal submitted
27	I56/10933/2004 Peter Gitutu Mbugua	Differential cross section calculation for $2^1P$ magnetic sublevel excitation of helium atom by positron impact using distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Notice of submission given
28	I56/CE/11475/2008 Adero Bernard Otieno	Investigation into the permeability and tectonic lineaments of Homa-Hills geothermal prospect, using magnetic method	Dr. W. J. Ambusso Dr. G. J. Gitonga	Graduated in December 2012
29	I56/CE/14118/2009 Augustine Ketko	Effect of petroleum products spillage on environment	Dr. W. Ambusso Dr. C. M. Migwi	Notice of submission given
30	I56/CE/10995/2006 Ngeno Kipkirui Paul	A compact external cavity diode laser in littrow configuration	Dr. P. M. Karimi Dr. G. K. Rurimo	Proposal submitted
31	Ndeke William M. I56/CE/14139/2009	Positron impact excitation of $2^1S$ state of helium atom using a distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Graduated on 5 <sup>th</sup> July 2013
32	I56/CE/10994/2006 Munguti Lawrence Kioko	Characterization of $Sn_xSe_y/ZnO:Sn$ P-N junction for solar cell applications	Dr. W. Njoroge Dr. R. Musembi	Graduated in June 2012
33	I56/CE/14135/2009 Oketch Fredrick Omboga	Distorted wave method applied to electron impact excitation of the lowest autoionizing state of rubidium	Dr. C. S. Singh Prof. J. Okumu	Graduated on 5 <sup>th</sup> July 2013
34	I56/CE/11191/2007 Odek Antony	Mapping geothermal heat source in Homa Hills using gravity technique	Dr. W. J. Ambusso Dr. J. G. Githiri	Notice of submission given
35	I56/CE/11462/2008 Daniel Kyalo Musyoki	Design and fabrication of a solar cell simulator for solar cell I-V characterization	Dr. P. M. Karimi Dr. W. K. Njoroge	Proposal submitted
36	I56/CE/15221/2008	Radionuclide content of sands used for construction	Dr. W. Ambusso	Graduated in

	Collins Shikali Ndega	in Kakamega and associated indoor radon diffusion doses	Dr. M. Munji	December 2013
37	I84/11034/2008 Lawrence Ochoo	A study of the influence of silver nanoparticles on the optical properties of methylene blue and curcumine dyes	Dr. C. M. Migwi Prof. J. Okumu	Graduated on 19/12/14
38	I56/CE/11487/2008 Omwenga Edwin	Characterization of SnSe-SnO <sub>2</sub> :Sb P-N junction for solar cell applications	Dr. W. K. Njoroge Dr. P. M. Karimi	Notice of submission given 25/06/2014
39	I56/CE/11465/2008 Paul Muthini Mutule	Calorific analysis of coal and quantitative analysis of coal ash radionuclides : a case study of coal from Kitui county	Dr. N. O. Hashim Dr. W. Ambusso	First progress report submitted
40	I56/CE/15208/2008 Vincent Onyancha Abuga	Geophysical investigation of Mbeu iron ore deposit in Meru county using gravity method	Dr. W. Ambusso Dr. C. M. Migwi	Graduated in 2013
41	I56/CE/11486/2008 Nyakundi Makori Evans	Characterization of SnSe-CdO:Sn P-N junction for solar cell applications	Dr. P. M. Karimi Dr. W. K. Njoroge	Graduated in July 2014
42	I56/CE/14121/2009 Cheruiyot Leonard	Natural radioactivity hazards of building bricks fabricated from clay soil of Bomet district	Dr. N. O. Hashim Dr. W. Ambusso	Graduated in July 2014
43	I56/CE/11468/2008 Khisa S. Wanjala	Optical and Electrical characterization of ZnS:Sn-CuO thin films for solar cell application	Dr. W. K. Njoroge Dr. J. M. Ngaruiya	Notice of submission given
44	I56/CE/12243/2009 Ntabari W. D. Mururu	Distorted wave method applied to elastic scattering of electron by a magnesium atom	Dr. C. S. Singh Prof. J. Okumu	Notice of submission given
45	I56/CE/14141/2009 Paul Ngigi Kinyanjui	Elastic scattering of electron by a calcium atom using distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Graduated on 5 <sup>th</sup> July 2013
46	I56/20369/2010 Kimonyi Muthoka Shadrack	Design of an automatic intelligent room light controller with bidirectional counters for energy efficiency applications	Dr. P. M. Karimi Prof. E. Mwangi	Graduated in December 2014
47	I56/CE/15537/2008 Nyaberi Wycliffe Machuki	Design and fabrication of a microcontroller based ultrasonic car parking assistance system	Dr. P. M. Karimi Prof. E. Mwangi	2 <sup>nd</sup> progress report presented 21/05/2014
48	I56/CE/10899/2008	Design and fabrication of a dual-resistive	Dr. P. M. Karimi	Notice of

	Keng'werere Joshua Mose	evaporation system controlled using Lab-View	Dr. D. Wamwangi	submission given 25/5/2016
49	I56//CE/11177/2007 Kamau C. M.	Nitrogen doping effect on tin-selenium thin films from phase change memory applications		Graduated on 5 <sup>th</sup> July 2013
50	Wekunda B. Z. Buya I56/13090/05	In <sub>x</sub> Se <sub>y</sub> thin films for PRAM applications	Dr. P. M. Karimi Dr. W. Njoroge	Graduated in July 2014
51	I56/CE/11975/2004 Njiru Njoki Sophy	Application of mass transport model to study temporal variation of concentration of lead in a riverine system	Prof. I. V. S. Rathore Dr. N. O. Hashim	Graduated in December 2012
52	I56/CE/11195/2007 Kundu J. M.	Crystallization kinetics and structural properties of Sn <sub>x</sub> Se <sub>y</sub> thin films for phase change memory applications	Dr. W. K. Njoroge Dr. P. M. Karimi	Graduated on 5 <sup>th</sup> July 2013
53	I56/CE/11459/2008 Mose Rose Gesare	Design and fabrication of a substrate holder controlled using Lab View validated by deposition of Cu <sub>x</sub> N <sub>y</sub>	Dr. P. M. Karimi Dr. W. K. Njoroge Dr. D. M. Wamwangi	Notice of submission given 16/3/2016
54	I56/CE/11476/2008 Serem Cosmas Kiplagat	Assessment of natural radioactivity and radiological hazards in selected building materials used in Eldoret town in Uasin Gishu County, Kenya	Dr. N. O. Hashim Dr. W Ambusso	Notice of submission given
55	I56/CE/11967/2007 Jared Omari Agora	Assessment of natural radioactivity levels and radiation hazards due to rocks in Kerio Valley of the Kenya Rift Valley	Dr. N. O. Hashim	Graduated in December 2012
56	I56/7370/2002 Wanyama Paul Simiyu	Effect of consolidation parameters on creep, fatigue and dynamic mechanical behaviour of self reinforced polypropylene composite	Dr. C. M. Migwi Dr. D. B. Bem	Graduated in July 2014
57	I56/10991/2006 Benard Riro Morumbwa	Fabrication of portable spectrometers to investigate optical properties of thin films	Dr. P. M. Karimi Dr. D. Wamwangi	Notice of submission given
58	I56/CE/10992/2006 Ogaro Elijah Nyakang,o	Phase shifting diffraction interferometer for absolute calibration of optical flats		Notice of submission given
59	I56/CE/11484/2008 Njoroge Stephen Maina	The design and fabrication of surface analysis set up by holographic interferometry	Dr. P. M. Karimi Dr. G. K. Rurimo	Graduated in July 2014

60	I56/CE/10490/2008 Mwenda Dickson Kinyua	Interferometric analysis of the cellophane sheet for broad band application in phase retardation	Dr. P. M. Karimi Dr. G. K. Rurimo	Graduated in July 2014
61	I56/CE/10929/2004 Mukatia Jim Kabaka	Eutrophication model for simulating the transport of total nitrogen and total phosphorus in Winam Gulf Lake Victoria	Dr. W. Ambusso Dr. Bem	Graduated on 19/12/14
62	I56/CE/15630/2005 Aloka Daniel Omondi	Multivariate chemometric analysis of natural radionuclide levels in geothermal fluids associated with high background radiation areas of Lambwe valley in south western Kenya	Dr. W. Ambusso	Second progress report presented
63	I56/10292/2006 Amatalo Abisai Imbwana	Design and fabrication of Al/ZnSe thin film schottky diode	Dr. P. M. Karimi Dr. D. Wamwangi	Notice of submission given
64	I56/CE/15635/2005 Stanley Kibet Kitur	Design and fabrication of general aperture coupled microstrip antennas with arbitrarily shaped apertures	Dr. W. Ambusso Dr. B. O. Konditi	Notice of submission given
65	I56/14298/2009 Nyaga Peter kinyua	Stability monitoring of $\text{Sn}_x\text{Se}_y/\text{ZnO}:\text{Sn}$ solar cell prepared by resistive evaporation method	Dr. M. Munji Dr. R. J. Musembi	Graduated in December 2014
66	I84/15115/2008 Margaret W. Chege	Determination of radioactivity in water, crops and indoor air in the high background radiation zone of Mrima Hill, Kenya	Dr. N. O. Hashim Dr. A. S. Merenga	Graduated on 19/12/14
67	I56/CE/11457/2008 Bussiinei Mark	Gamma ray spectroscopic analysis and multivariate chemometric impact assessment of radionuclide dispersal around the Nandi-Hills, Nandi county (Kenya) tea farming complex	Dr. N. O. Hashim Dr. H. K. Angeyo	Notice of submission given
68	I56/24494/2011 Bera David Boyo	Preparation and characterization of $\text{Sr}_x\text{Al}_y\text{O}_z:\text{Eu}^{2+}, \text{Dy}^{3+}$ phosphor thin films	Dr. D. B. Bem Prof. H. C. Swart	Graduated in July 2015
69	I56/CE/11000/2006 Andrew Yotui Chepyegon	Sound compression by modified discrete cosine transform: the MP3 coding standard	Dr. W. Ambusso Dr. M. Munji	Notice of submission given on 14/10/2015
70	I56/CE/22375/2010	Sizing a standalone photovoltaic electrical solar	Dr. M. Munji	Graduated in

	Mukere Moffat Kiruthu	system, for domestic consumption	Dr. J. Simuyu	July 2014
71	I56/CE/22385/2010 Nyaga Muriithi Symon	System sizing of solar energy requirement for an 'all-direct current' standalone telecommunication system	Dr. M. Munji Dr. J. Simuyu	Graduated in July 2013
72	I56/CE/15669/2005 Dorcus Nthoki Mulumba	Study and design of a mobile phone-based route prediction optimizer for a security application	Dr. P. M. Karimi	Notice of submission given
73	I56/12238/2009 Kibusu Christopher Mmata	Design and fabrication of a SCADA system for process control using the available human machine interface technologies	Dr. P. M. Karimi Dr. G. Nyakoe	First progress report presented
74	I56/CE/11179/2007 Elijah Daniel Okelo	Gamma ray spectrometry analysis of the naturally occurring radionuclides in sand samples from sand mines on the shores of lake Victoria in Migori county, Kenya	Dr. N. O. Hashim Dr. A. S. Merenga	Graduated on 18/12/2015
75	I56/CE/22400/2010 Duke Ateyh Oeba	Electrical and optical characterization of $Cu_4SnS_4$ and $CdS:B$ thin films for photovoltaic applications	Dr. W. K. Njoroge Dr. M. Munji	Proposal submitted
76	I56/23507/2011 Musila Nicholas Muendo	Characterization of low cost $TiO_2$ based dye-sensitized solar cell prepared by screen printing method	Dr. M. Munji Dr. J. Simiyu	Graduated in July 2014
77	I56/CE/22366/2010 Ouko Samwel	Natural radiometric survey and estimation of radiation exposure from archean rocks: a case study of granite-greenstone complex of Migori county, Kenya	Dr. N. O. Hashim Dr. A. S. Merenga	Notice of submission given 18/09/2013
78	I56/CE/22361/2010 Namaswa Solomon Wangila	Mapping of nakaporon fault in Korosi geothermal prospect field by use of gravity method	Dr. W. J. Ambusso Dr. C. M. Migwi	2 <sup>nd</sup> progress report 10/09/2014
79	I56/CE/14111/2009 Alex Magembe Marucha	Positron impact excitation of lowest autoionizing state in rubidium atom using distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Graduated in July 2014
80	I56/CE/22406/2010 Gichobi Peterson Muriithi	Electron impact excitation of the lowest autoionizing state in cesium using distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Graduated on 18/12/2015

81	I56/CE/22404/2010 Opiyo Samwel Olaka	Investigating effect of Zn doping on In <sub>2</sub> Se <sub>3</sub> thin film for phase change random access memory (PRAM) applications	Dr. W. K. Njoroge Dr. M. K. Munji	Graduated on 18/12/2015
82	I56/CE/22376/2010 Wachira Anthony Mwangi	Effects of consolidation parameters on creep, dynamical mechanical behaviour, thermal degradation and fatigue of self-reinforced high density polyethylene composite	Dr. C. M. Migwi Dr. D. B. Bem	Graduated on 16/12/2016
83	I56/CE/22409/2010 Rotich Chaeles Kipngeno	Gamma ray spectroscopy analysis of soil and green tea leaves of Kericho county	Dr. N. O. Hashim Dr. W. J. Ambusso	Notice of submission 02/10/2013
84	I56/CE/22377/2010 Obare Benard Mosoti	Characterization of Cu <sub>x</sub> N <sub>y</sub> and CdO:Al thin films for solar cell applications	Dr. W. K. Njoroge Dr. M. K. Munji	Graduated on 15/7/2016
85	I56/CE/22407/2010 Koros Hosea	Application of gravity method in mapping heat source in Paka geothermal system	Dr. W. J. Ambusso Dr. N. O. Mariita	Proposal submitted
86	I56/CE/22774/2010 Kipkirui N. Richard	Application of electromagnetic method in mapping out geological structures in Korosi area Kenya rift	Dr. W. J. Ambusso Dr. N. O. Mariita	Proposal submitted
87	I56/CE/22374/2010 Patrick Mwinzi Mwathe	Effect of surface passivation on doped tin (IV) oxide thin films for gas sensor applications	Dr. M. K. Munji Dr. R. J. Musembi	Graduated July 2015
88	I56/23518/2011 John Chenang'at chemorei	Characterization of ZnO-Zn thin film for solar thermal applications	Dr. W. K. Njoroge Dr. C. M. Migwi	Proposal submitted
89	I56/CE/14134/2009 Murori Francis Kamau	Design and fabrication of computer based metal detection system for security applications	Dr. P. M. Karimi Prof. E. Mwangi	Notice of Submission 16/03/2016
90	I56/CE/14110/2009 Shivachi Newton Shuma	Design and fabrication of a microcontroller based carbon monoxide monitoring and mapping system using GPS technology	Dr. P. M. Karimi Prof. E. Mwangi	Notice of submission 3/2/2016
91	I56/CE/22368/2010 Kepha Evans Ndeda	Geothermal reservoir monitoring at Olkaria east field by using historical matching of micro-gravity and productivity data	Dr. W. J. Ambusso Dr. N. O. Mariita	Proposal submitted
92	I56/CE/14122/2009	Design and fabrication of a computer based	Dr. P. M. Karimi	Notice of



	Maato Ombaba Jared	fingerprint security system for restricted access control	Prof. E Mwangi	submission 8/6/2016
93	I56/CE/22414/2010 Apiyo Kelvin Otieno	Obliquely sputtered, pressed and thermally annealed nitrogen doped titanium dioxide ( $TiO_2N_x$ ) thin film: fabrication and characterization for photovoltaic application	Dr. W. K. Njoroge Dr. R. J. Musembi	Proposal submitted
94	I56/CE/14125/2009 Marango Charles Wangila	Mechanical properties of self-reinforced high density polyethylene	Dr. A. S. Merenga Dr. C. M. Migwi	1 <sup>st</sup> progress report 23/9/2015
95	I56 /CE/22393/2010 Onkoba Nicholas Osoi	Design and study of a secure mobile GPS route navigator, adapted for the visually impaired	Dr. P. M. Karimi Dr. M. Gakuru	Graduated on 16/12/2016
96	I56/23520/2011 Aguko Gibson Achola	Air kerma and radiation dose mapping of a gamma ray beam irradiator	Dr. N. O. Hashim Prof. H. Zaidi	Proposal submitted
97	I56/7707/2002 Francis Mwaura Ng'ang'a	Measurements and evaluation of radio frequency radiation at cellular base station	Dr. M. K. Munji Prof. J. N. Nderu	Notice of submission 23/10/13
98	Nyakiti Kevin Ochieng I56/CE/22395/2010	Investigating characteristization of SnSe-ZnS:Al p-n junction thin film for solar cell application	Dr. W. K. Njoroge Dr. M. K. Munji	2 <sup>nd</sup> Progress 3/5/2017
99	I56/22402/2010 Kabarakka James Otieno	Influence of i-ZnO buffer layer on $Cu_2O-ZnO:Al$ p-n junction for solar cell applications	Dr. W. K. Njoroge Dr. M. K. Munji	2 <sup>nd</sup> Progress report given on 5/4/2017
100	I56/23510/2011 Mornika Auma Mgele	Characterization of SnSe/SnO <sub>2</sub> :F thin films for solar cell application	Dr. M. K. Munji Dr. W. K. Njoroge	Proposal submitted
101	Nyasani Eric Isaboke I56/21149/2010	Wind energy assessment as a potential alternative energy source in Kisii and Kisumu towns in Kenya	Dr. M. K. Munji Dr. Karambizi	Graduated on 16/12/2016
102	Njeru Elosy Gataka I56/CE/22378/2010	Performance evaluation of silicon based photovoltaic modules found in the Kenyan market	Dr. M. K. Munji Dr. W. K. Njoroge	Graduated on 18/12/2015
103	Kabuga Pauline Kainyu I56/CE/23449/2010	Optical characterization of compounds for dye sensitized solar cell applications	Dr. W. K. Njoroge Dr. J. Simiyu	Proposal submitted
104	Otieno Philip Jeremiah	Investigating the Optical and Electrical Properties	Dr. W. K. Njoroge	1 <sup>st</sup> progress

	I56/CE/22396/2010	of Cu <sub>2</sub> O and ZnS:Al Thin Films for Solar Cell Applications	Dr. M. K. Munji	3/5/2017
105	Kariuki Peter Kinuthia I84/25565/2011	Comparison of the optical potential method and the distorted wave Born approximation method in electron – atom elastic scattering	Dr. C. S. Singh Prof. J. Okumu	Graduated on 18/12/2015
106	Okowo Benard Oluoch I56/CE/15536/2008	Investigation of TiO <sub>2</sub> -Cu thin films for optical gas sensor applications	Dr. W. K. Njoroge Dr. D. B. Bem	Proposal submitted
107	Njoroge Paul Kamau I56/CE/14123/2009	Fabrication and characterization of pressed, thermally annealed co-doped TiO <sub>2</sub> thin film for solar cell application	Dr. W. K. Njoroge Dr. R. J. Musembi	Proposal submitted
108	Mogunde Charles Moraro I56/CE/22416/2010	Optical and electrical characterization of Cd <sub>x</sub> Se <sub>1-x</sub> and Cu <sub>2</sub> S thin films for solar cell application	Dr. W. K. Njoroge Dr. M. K. Munji	Notice of submission 15/07/2015
109	Paul Giciah Gachukiah I56/CE/22362/2010	Assessment of levels of natural radioactivity and radiation hazards due to rocks and gravel (murrum) in Kiganjo and Mukaro locations of Nyeri County, Kenya	Dr. N. O. Hashim Dr. C. M. Migwi	Proposal submitted
110	Collins Omondi I56/22399/2010	Characterization and determination of HVL, air kerma and calibration coefficients for narrow X-ray beam	Dr. N. O. Hashim Dr. D. Otwoma	Notice of submission 24/2/2015
111	Onyango Edwin I56/CE/14132/2009	Increasing the Efficiency of the Dye-Sensitized Solar Cells by Incorporating Imidazolium Salts	Dr. M. Munji Dr. W.K. Njoroge	Proposal Submitted 18/09/2013
112	James Herman I56/20400/2012	Determination of Natural Radioactivity and Essential Concentration Levels in the Vicinity of Minjingu Mining-Tanzania	Dr. N.O. Hashim Dr. M.M. Nyaruba	1 <sup>st</sup> Progress Report 29/10/2014
113	Kirui Geoffrey Kipkemoi I56/20422/2010	Analysis of Effect of Substrates on the Radiation of Rectangular Microstrip Antenna Array of Various Patch Sizes	Prof. D.B.O. Konditi Dr. M.K. Munji	2 <sup>nd</sup> Progress report 14/10/2015
114	Josephat Waithuki Kariuki	Analysis of Microstrip Antenna Using Arbitrarily	Prof. D.B.O. Konditi	Graduated on

	I56/21439/2012	Shaped Patches Having Similar Surface Area	Dr. M.K. Munji	15/7/2016
115	Magare O. Robert I56/20406/2012	Fabrication and Characterization of TiO <sub>2</sub> /In(OH) <sub>x</sub> S <sub>y</sub> /SnS Composite ETA Solar Cell	Dr. M.K. Munji Dr. R.J. Musembi	Notice of submission 6/10/2016
116	Abednego Kimathi Mulu I56/20401/2012	Characterization of Tin Doped Antimony Selenium (Sn-Sb <sub>x</sub> Se <sub>1.5x</sub> ) Thin Film for Phase Change Memory (PCM) Applications	Dr. P.M. Karimi Dr. R.J. Musembi Dr. D.M. Wamwangi	Proposal Submitted 16/10/2013
117	Brinden K. Mutange I56/26175/2011	Characterization Study of Indium Doped in Tin Selenide (In-Sn <sub>x</sub> Se <sub>y</sub> ) Thin Films For Phase Change Memory Application	Dr. P.M. Karimi Dr. R.J. Musembi Dr. D.M. Wamwangi	Proposal Submitted 16/10/2013
118	Chumo K. Cosmas I56/CE/14136/2009	Optical and Electronic Characterization of CuS and CdS:B Thin Films For Solar Cell Application.	Dr. M.K. Munji Dr. W.K. Njoroge	Notice of submission 13/7/2016
119	Sarah Aseda I56/20404/2012	Reduction of Errors Caused by Cross-Polarization In A Microchip Antenna	Dr. M.K. Munji Dr. P. K. Kibet	Notice of submission 29/06/2016
120	Kamau Stephen Mbugua I56/20399/2012	Simulation of Ultra-High Energy Photon Induced Showers in the Geomagnetic Field and the Atmosphere	Dr. N. O. Hashim Dr. Marcus Risse	Proposal Submitted 18/12/2013
121	Shikambe R. Tsisambo I56/CE/14120/2009	Optical and Electrical Characterization of Cd <sub>x</sub> Ni <sub>1-x</sub> S and Sb <sub>2</sub> S <sub>3</sub> Thin Film for Photovoltaic Application	Dr. M.K. Munji Dr. R.J. Musembi	Notice of submission 22/09/2016
122	Motari K. Mavyline I56/22434/2012	Simulation of Cosmic Ray Mouns Charge Ratio at Energies up to 10TeV Using EPSOS	Dr. O.N. Hashim Dr. Marcus Risse	Notice of submission 12/4/2017
123	Kang'ethe Michael I56/CE/26184/2011	Optical, Electrical and Structural Analysis of Cd <sub>1-x</sub> Fe <sub>x</sub> S/CuS p-n Junction for Solar Cell Application.	Dr. M.K. Munji Dr. W.K. Njoroge	Graduated on 16/12/2016
124	Ndonye Sally Mutheu I56/CE/23512/2011	Effects of Substrate Deposition Temperature on the Properties of Sn <sub>x</sub> Se <sub>y</sub> /ZnO:Sn Thin Film Solar Cells	Dr. M.K. Munji Dr. R. J. Musembi	1 <sup>st</sup> progress report

				27/01/2016
125	Mugambi Nelson I56/CE/26617/2011	Characterization of Tin Selenide : Nickel-doped Tin Prepared by Spray Pyrolysis for Photovoltaic Application	Dr. M.K. Munji Dr. R. J. Musembi	Graduated on 16/12/2016
126	Gitonga John Mbae I56/CE/25987/2011	Analysis of Optimized Deposition Temperature of ZnO:Al Thin Films on Sn <sub>x</sub> Se <sub>y</sub> /ZnO:Al p-n Junction Solar Cell	Dr. M.K. Munji Dr. R. J. Musembi	Graduated on 16/12/2016
127	Kennedy Muchiri I56/CE/22773/2010	A Simple Manual Digital to Analogue Decoder Design for Analogue TV Reception	Dr. M.K. Munji Dr. J.N. Mutuku	Notice of submission 28/01/15
128	Ephantus Nyaga Njeru I56/CE/26186/2011	Characterization of Cd <sub>x</sub> Se <sub>1-x</sub> S/Cu <sub>2</sub> S p-n Junction for Solar Cell Application Prepared by Chemical Bath Deposition Method	Dr. M.K. Munji Dr. W.K. Njoroge	Notice of Submission 13/01/2016
129	Riungu Geoffrey Gitonga I56/CE/26614/2011	Characterization of Sn <sub>x</sub> Se <sub>y</sub> :SnO <sub>2</sub> -Co p-n Junction Deposited by Spray Pyrolysis for Photovoltaic Application	Dr. M.K. Munji Dr. R.J.Musembi	Graduated on 16/12/2016
130	Nyangaesi P. Onkundi I56/CE/20980/2010	Characterization of SnO <sub>2</sub> :Al-ZnO:Al p-n Junction Deposited by Spry Pyrolysis Technique for LED Application	Dr. M.K. Munji Dr. D.B. Bem	Graduated on 18/12/2015
131	Daniel Thomson Poghon I56/CE/23136/2010	Electron Impact Excitation of Autoionizing State of Potassium Using a Distorted Wave Method With Exchange and Absorption Potential	Dr. C. S. Singh Prof. J. Okumu	Proposal Submitted 29/01/2014
132	Vincent Onyango O.N.A. I56/CE/23526/2011	Effect of Exchange and Absorption Potential in the Distorted Wave Calculation of Electron Impact Excitation of Autoionizing State of Rubidium	Dr. C. S. Singh Prof. J. Okumu	Graduated on 16/12/2016
133	Muchangi Philip M. M. I56/CE/26172/2011	Effect of Deposition Temperature on the Properties of Al Doped SnO <sub>2</sub> in Sn <sub>x</sub> Se <sub>y</sub> -SnO <sub>2</sub> :Al p-n Junction Solar Cell	Dr. M.K. Munji Dr. R. J. Musembi	Proposal Submitted 29/01/2014
134	Kineene Miriam M. I56/23514/2011	Synthesis and characterization of Niobium Oxide Thin Film for DSSC Application	Dr. M.K. Munji Dr. J Simiyu	1 <sup>st</sup> progress 17/11/2016

135	Aguyo Apollo Ochieng' I56/CE/26607/2011	Effect of Exchange and Absorption Potential in the Distorted Wave Calculation of Electron Impact Excitation of Autoionizing State of Cesium	Dr. C. S. Singh Prof. J. Okumu	Notice of submission 10/2/2016
136	Omwansu O. Wycliffe I56/CE/26613/2011	Solution-based Fabrication of Ni <sub>x</sub> OTi <sub>1-x</sub> /CeO <sub>2</sub> -TiO <sub>2</sub> Nanostructured Thin Film for Energy-efficient Applications in Smart Window	Dr. M. Munji Dr. C. Migwi	Notice of submission 19/11/14
137	Kimenyi Nyamu I56/CE/26605/2011	Ground Magnetic Survey of Iron Ore Deposits in Kimachia Area, Meru County	Dr. Ambusso Dr. Githiri J. Gitonga	Proposal Submitted 19/02/2014
138	Phelix Ogembo I56/CE/24432/2010	Effect of Exchange and Absorption Potential in the Distorted Wave Calculation for the Electron Impact Elastic Scattering of Calcium	Dr. C. S. Singh Prof. J. Okumu	Proposal Submitted 19/02/2014
139	Edward Omuga Ntambo I56/CE/22398/2010	Study of SnS and Cd <sub>x</sub> Zn <sub>1-x</sub> S Thin Film Deposited by Spray Pyrolysis for Photovoltaic Applications	Dr. M.K. Munji Dr. R.J.Musembi	Notice of submission 18/5/2016
140	Mark Bosire Mosioma I56/10395/2007	Analysis of Core Cooling and System Pressure for a Pressurized Water Reactor (PWR) Following Elimination of RTDS Bypass Using PRISM Core Simulator.	Dr. N.O. Hashim Dr. Otwoma	2 <sup>nd</sup> Progress Report 13/05/2015
141	Seurey Paul I56/CE/25984/2011	Geophysical imaging for geothermal prospects in lake Baringo using magnetic method	Dr. Ambusso Dr. Githiri J. Gitonga	Notice of submission 22/04/2015

142	Cherop Komen Hezekiah I56/CE/26608/2011	Ground work investigation and characterization in Marigat area, Baringo county, using vertical electrical sounding resistivity surveys	Dr. Ambusso Dr. Githiri J. G.	Graduated on 16/12/2016
143	Emily Naitore Munene I56/23509/2011	Numerical modeling of heavy metals in riverine systems. A case study of river Sosian in Eldolet, Uasin Gishu county.	Dr. Hashim Dr. Ambusso	Notice of submission 21/12/2016
144	Kiplangat Elijah I56/CE/26604/11	Radiation Concentrations and Dose Assessment for Soil Samples From Wheat Plantation Area of Narok County, Kenya.	Dr. Hashim Dr. Merenga	Graduated on 16/12/2016
145	King'ang'i James Mwitii I56/CE/22372/2010	Characterization of Cuo/Zno:Al P-N junction for solar cell application	Dr. Munji Dr. Simiyu	Notice of submission 13/1/2016
146	Robinson Njunji Kariuki I56/CE/26625/2011	Surface Analysis of Thin Films Using Interferometric Technique	Dr. P. M. Karimi Dr G. Kihara Rurimo	Proposal Submitted 16/04/2014
147	Suleiman M. Mwakwina I56/CE/26609/2011	Effects of Exchange and Absorption Potential in the Distorted Wave Calculation of Electron Impact Elastic Scattering of Magnesium	Dr. C. S. Singh Prof. J. Okumu	Proposal Submitted 14/05/2014
148	Harrison M. Kyungu I56/CE/22412/2010	Analysis of Radionuclide Levels in Building stones of Kimutwa Area in Machakos County	Dr. Hashim Dr. C. Migwi	Proposal Submitted 14/05/2014

149	Irungu Joseph Mburu I56/CE/26188/2011	Measurement of Concentration and Refractive Index of Liquids Using Holographic Interferometry	Dr. P. Karimi Dr. G. Kihara Rurimo	Proposal Submitted 14/05/2014
150	Kamau Samuel Githira I56/26190/2011	Effects of <i>ASPERGILLUS NIGER</i> on Mechanical, Diffusion and Thermal Degradation Properties of Low Density Polyethene.	Dr. A. Merenga Dr. C. Migwi	1 <sup>st</sup> progress 21/12/2016
151	Simon Musyoki Paul I56/CE/26620/2011	Effect of Exchange and Absorption Potential in the Distorted Wave Calculation of Electron Impact Excitation of Lowest Auto Ionizing State of Sodium	Dr. C. S. Singh Prof. J. Okumu	Proposal Submitted 21/05/2014
152	Musamali Enock Wanjala I56/CE/26603/2011	Gamma Ray Spectroscopic Analysis of Soil in Bungoma County	Dr. N. Hashim Dr. A. Merenga	Graduated on 15/7/2016
153	Jane Gaceri Kailemia I56/CE/26192/2011	Characterization of Zn <sub>x</sub> Se <sub>y</sub> -ZnO:Al P-N Junction for Solar Cell Applications	Dr. D.B. Bem Dr. M. Munji	Proposal Submitted 28/05/2014
154	Mugambi Michael Chabari I56/CE/22370/2010	Fabrication and Characterization of Sputtered Cuprous Oxide and Sprayed Aluminium Doped Zinc Oxide (Cu <sub>x</sub> O <sub>y</sub> -ZnO:Al) P-N Junction for Solar Cell Applications.	Dr. D.B. Bem Dr. J. Simiyu	1 <sup>st</sup> progress report 11/11/2015
155	Charles Chirchir I56/CE/22364/2010	Gravity Survey of Moinonin Area in Lake Baringo Geothermal Prospect, Kenya.	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	Notice of submission 17/11/2016

159	Ongeri Evans Machuki I56/CE/26169/2011	Characterization of CuO <sub>2</sub> /SnO <sub>2</sub> :F P-N Junction for Solar Cell Applications	Dr. M.K. Munji Dr. R.J.Musembi	2 <sup>nd</sup> progress report given on 21 /10/2015
160	Mathenge Ruth Muthoni I56/CE/26170/2011	A Study of the Formation of Super Star Clusters	Dr. N.O. Hashim Dr. Petri Vaisanen	Proposal Submitted 25 <sup>th</sup> June,2014
161	Nguru Joseph Mugacia I56/CE/26621/2011	Geophysical Exploration for Iron Ore Prospect, in Mbeu Area in Meru, Kenya, Using Gravity Method	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	1 <sup>st</sup> progress report given on 19/08/2015
162	Oduor George Otieno I56/CE/25986/2011	Geophysical Prospect of Iron-Titanium Oxide (Ilemenite) Using Magnetic Method in Mrima Area in Kwale, Kenya.	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	Graduated on 15/7/2016
163	Muchiri Lucy Muringo I56/25916/2013	Geographical Investigation and Characterization of Groundwater Aquifers in Gakonde Area, Yatta District Using Electrical Resistance Method.	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	Graduated on 16/12/2016
164	Wekesa Pamella W. I56/CE/24497/2012	Analysis of Naturally Occuring Radionuclides in Sand Samples From the Banks of River Nzoia Using Gamma Ray Spectrometric Analysis.	Dr. N.O. Hashim Dr. A. Merenga	Notice of Submission 14/10/15
165	Kamunde Betty Karimi I56/CE/24516/2012	Assessment of Radiation Exposure Levels Associated With Sand Used for Construction in Tharaka Region, Tharaka-Nithi County.	Dr. N.O. Hashim Dr. A. Merenga	Graduated on 15/7/2016



166	Ndichu Tirus Njuguna I56/CE/23519/2011	Gamma Ray Spectrometry of Phonolyte-Kenytte Sequence of Volcanic Sediments of Mt Kenya Suite Deposited by Graciation on the Western Slopes of Mt Kenya in Africa	Dr. N.O. Hashim Dr. C. Migwi	Notice of submission 18/11/2015
167	Nyinya Austine Ouma I56/CE/26168/2011	A low Cost Microcontroller Based Voltage and Frequency Monitoring System for Single Phase Mains Power Supply.	Dr Karimi Prof. E. Mwangi	1 <sup>st</sup> progress report 13/05/2015
169	Cyprian B. Mwirigi I56/CE/24507/2012	Iron Ore Mining Deposits Exploration by Ground Magnetics in Kindani-Irereni Area, Meru County	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	Graduated on 16/12/2016
170	Kebwaro M. Moraa I56/CE/24496/2012	Geophysical Investigation of Kindani Iron Ore Deposit in Irereni, Meru County, Using Gravitation Method	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	Proposal Submitted 08/10/2014
171	Mutunga J. Mutungi I56/CE/22274/2012	Assessment of Natural Radioactivity Concentration Levels in Geological Samples Collected in Selected Areas in Makueni County	Dr. N. Hashim Dr. C. Migwi	Notice of submission 11/1/2017
172	Mwangi Peter Ngugi I56/24955/13	A Low Cost GSM Based Water Meter System	Dr. P. Karimi Prof. E. Mwangi	Graduated on 16/12/2016
172	Majau Agriphina Mugure I56/24240/2013	Design and fabrication of an autonomous line follower robot capable of picking and dropping objects from one point to another	Dr. M.K. Munji Dr. W. J. Ambusso	Notice of submission 3/05/2017

173	Munywoki Abednogo W. I56/CE/26173/2011	Positron impact excitation of the lowest autoionizing state in cesium using distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Notice of submission 18/5/2016
174	Nyakundi Erick Rayora I56/CE/24486/2012	Geophysical investigation of Lolgorien gold ore deposit in Narok county using gravity method	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	Notice of submission presented on 10/2/2016
175	Warega Joseph Ayieta I56/CE/24502/2012	Geology study of Olkaria geothermal dome areas using gravity method in Naivasha, Nakuru county	Dr. W. J. Ambusso Dr. J. G. Gitonga	1 <sup>st</sup> progress report 19/04/2017
176	Mutuku Festus Kyalo I56/CE/26627/2011	Positron impact excitation of lowest autoionizing state of Lithium using a distorted wave method with absorption potential	Dr. C. S. Singh	Proposal submitted 04/02/2015
177	Ombati Dennis I56/CE/23417/2012	Geophysical investigation in Rongo gold mining area in Migori county using resistivity method	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	2 <sup>nd</sup> progress report 14/12/2016
178	Neko Benjamin Mogaka I56/CE/24494/2012	Geophysical investigation of mineralogy in Kamwango gold mining area using magnetic technique	Dr. W. J. Ambusso Dr. J. Githiri Gitonga	2 <sup>nd</sup> progress report 14/12/2016
179	Okinyi Dennis Ombagi I56/CE/24511/2012	Characterization of SnS/SnO <sub>2</sub> :Sb P-N junction for solar cell applications	Dr. M.K. Munji Dr. W. K. Njoroge	2 <sup>nd</sup> progress 08/6/2016
180	Omwoyo Jared Gisemba	Characterization of Cu <sub>2</sub> S/SnO <sub>2</sub> :F P-N junction for solar cell applications	Dr. M.K. Munji Dr. S. Waita	2 <sup>nd</sup> progress report given 11/11/2015

	I56/CE/24509/2012			
181	Choge Hillary Kirwa I56/CE/15629/2005	Optical and electrical characterization of ZnSe-Cu <sub>x</sub> O <sub>y</sub> thin films for solar cell applications	Dr. W. K. Njoroge Dr. Mapelu	Graduated on 15/7/2016
182	Njoroge David Kimemia I56/24956/2013	Fabrication and characterization of a graphite dispersed Titanium Dioxide Solid Solar Cell	Dr. W. K. Njoroge Dr. I.W. Mwangi	Notice of submission 06/10/2016
183	Nafuna Elizabeth Wanyonyi I56/CE/24489/2012	A novel synthesis and characterization of dyes in TiO <sub>2</sub> matrix for low cost solar energy conversion	Dr. M. Munji Dr. J. Simiyu Dr. E. Masika	1 <sup>st</sup> progress 21/12/2016
184	Justine Simiyu I56/CE/24512/2012	Analysis of natural radioactivity and radiological hazard of building rocks used in Meru county, Kenya.	Dr. Hashim Dr. Migwi	Proposal submission 03/06/2015
185	Malet Andrew Malombe I56/24210/2011	Measurement of radioactivity in soil and coal samples in proposed site for coal mining in Mui-Basin Kitui county, Kenya	Dr. Hashim Dr. Migwi	Proposal submission 10/06/2015
186	Wekesa Evelyne Nafula I56/CE/24513/2012	Investigation of temperature effect on hydrothermal synthesized nanoparticles Dye Sensitized Solar Cell	Dr. Munji Dr. Simiyu, Dr. Masika	Proposal submission 10/06/2015
187	Amukah Kenneth Oborah	Assessment of natural radioactivity levels and radiation hazards due for building material used in	Dr. Migwi	Proposal submitted on 15/07/2015

	I56/CE/24492/2012	Babadogo estate, Nairobi County, Kenya	Dr. Hashim	
188	Musila Nicholas Muendo I84/32270/2015	Characterization and efficiency improvement studies of TiO <sub>2</sub> based dye-sensitized solar cells	Dr. M. K. Munji Dr. J. Simiyu Dr. E. Masika	1 <sup>st</sup> progress 29/09/2016
189	Kereu Shem I56/24958/2013	Optical and electrical characterization of ZnS:In /CuS thin films grown by CBD technique for solar cells	Dr. M. Munji Dr. L. Ochoo	1 <sup>st</sup> progress 7/12/2016
190	Mayaka Bosire Jackson I56/CE/24505/2012	Geo-electric investigation of ground water potential in Ibissil area, Kajiado county	Dr. Ambusso Dr. Githiri	2 <sup>nd</sup> progress report given on 10/11/2016
191	Daniel Stephen Wamriew I56/CE/28358/2013	A geophysical imaging for geothermal prospects in Arus Bogoria area using MT and TEM electromagnetic methods	Dr. W. Ambusso Dr. J. Githiri	2 <sup>nd</sup> progress report 10/8/2016
192	Onyancha Elvick Mars Motanya I56/CE/24498/2012	Positron impact elastic scattering of Magnesium using distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Proposal submitted on 07/10/2015
193	Oketch Saidi Abubakar	Magnetic studies of gold ore mineral deposits in Macalder area, Migori county	Dr. C. M. Migwi Dr. J. G. Githiri	Proposal submitted on 07/10/2015

194	Magare Aondo Douglas I56/27970/2014	Design and analysis of microstrip antenna for 2.4GHz applications	Dr. S.A. Merenga Dr. M. Munji	2 <sup>nd</sup> progress 3/5/2017
195	Kago James Ndungu I56/CE/28347/2013	Elastic scattering of electron by Barium atom using distorted wave method	Dr. C. S. Singh Prof. John Okumu	Notice of submission 5/4/2017
196	Kimani Martin I56/CE/28329/2013	Electron impact elastic scattering of Strontium using distorted wave method	Dr. C. S. Singh Prof. John Okumu	Notice of submission 5/4/2017
197	Pondo Joshua Were I56/CE/24499/2012	Monte-Carlo simulation and measurement of Gamma ray attenuation in concrete	Dr. N. O. Hashim Prof. Dr. Husemann	Notice of submission 10/11/2016
198	Ndwiga Nicholus Kariuki I56/CE/28336/2013	Design and construction of a PIC microcontroller-based five degree of freedom robotic arm using servo-motors	Dr. M. K. Munji Dr. W. J. Ambusso	Notice of submission 29/9/2016
199	Joseph Ogidi Wandugu I56/CE/28356/2013	Positron impact elastic scattering of Sodium using distorted wave method with absorption potential	Dr. C. S. Singh Prof. John Okumu	Proposal submitted on 02/03/2016
200	Mvurya Julius Maurice I56/CE/28367/2013	Positron Impact excitation of lowest autoionizing state of Cesium using distorted wave method with absorption potential	Dr. C. S. Singh Prof. John Okumu	Proposal submitted on 23/03/2016
201	Lydia M. Kinari I56/CE/26629/2011	Analysis of SnO <sub>2</sub> :F/ZnO Nano composite for Gas Sensing Application	Dr. M. K. Munji Dr. R. Musembi	Proposal submitted on 09/03/2016

202	Muchira Irene Wanjiku I84/32275/2015	Crystallization kinetics and structural properties of In-Se-Bi thin films for reversible phase change memory (PRAM) applications	Dr. M. K. Munji Dr. W. Njoroge	Proposal submitted on 23/03/2016
203	Sylvester Wambua Makumi I56/CE/24677/2012	Nanomechanical mapping of defected Graphene by Multimode 8.  Determination of electrical and gas sensitivity properties of Graphene sheets	Prof. Klaus Leifer Mr. Hu Li	Notice of submission 13/4/2016
204	Cosmas Kipyego Kosgei I56/CE/26896/2011	Investigation of the effect of basicity and concentration of proton accepting bases on the potential of quinones for high potential quinone based cathode materials	Prof Martin Sjodin Dr. Carlos Moyses Araujo	Notice of submission 13/4/2016
205	Willis Otieno Gor Odongo I56/CE/28375/2013	Gamma Ray Spectrometric Analysis of Sand Samples from Selected Beaches on Coastline of Kenya.	Dr. N. Hashim Dr. M. W. Chege	Notice of submission 22/9/2016
206	Kisavi Peter Kioko I56/CE/28363/2013	Design and fabrication of an adaptive sensor control device	Dr. M. Munji Dr. W. Ambusso	Proposal presented on 18/5/2016
207	Augustine Ketko I84/27931/2014	Characterization of wettability and wettability reversal of Turkana rocks as remedial action on oil spilled rock	Dr. W. Ambusso Dr. N. Hashim	Proposal presented on 25/5/2016
208	Irungu Moses Kahura	Design and fabrication of a microcontroller based smart door lock	Dr. M. Munji Dr. W. Ambusso	Notice of submission 6/10/2016

	I56/CE/26623/2011			
209	Wekesa Samuel Wasike I56/CE/28366/2013	Positron impact elastic scattering of Barium using distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Proposal presented 15/6/2016
210	Owino Okok Hanningtone I56/CE/28368/2013	Positron impact elastic scattering of calcium using distorted wave method with absorption potential	Dr. C. S. Singh Prof. J. Okumu	Proposal presented 15/6/2016
211	Kenyonsi Peter Maosa I56/CE/24522/2012	Characterization of Cu <sub>2</sub> S-ZnO:B P-N junction for solar cell applications	Dr. A. S. Merenga Dr. S. M. Waita	Proposal presented 15/6/2016
212	Elicah N. Wabululu I84/33524/2014	First principle calculations of electronic and mechanical properties of LaF <sub>3</sub> and BaF <sub>2</sub> :La	Dr. P.O Nyawere Dr. D. B. Bem	Proposal presented 6/7/2016
213	Mirriam Mumbua Muema I56/27930/2014	Analysis of optical and electrical properties of CuO/SnO <sub>2</sub> :F nanocomposite for carbon monoxide gas sensor application	Dr. M. Munji Dr. R. Musembi	Proposal presented 10/8/2016
214	Ndeke William Murithi I84/32282/2015	Elastic scattering calculations of positrons and electrons by neon and argon atoms at intermediate energies	Dr. C. S. Singh Prof. J. Okumu Dr. P.K. Kariuki	Proposal presented 10/8/2016
215	Alex Magembe Marucha I84/32279/2015	Relativistic distorted wave approach to electron impact excitation of heavy rare gases using a complex potential	Dr. C. S. Singh Dr. P.K. Kariuki	Proposal presented on 22/9/2016

			Prof. J. Okumu	
216	Stanley Wambugu I84/25566/2011	Effect of Hermanson's spatial dielectric function on the total energy of a cubic quantum dot and frequency dependent dielectric functions in binary semi-conductors	Dr. Ambusso Prof Okumu	Proposal presented 22/9/2016
217	Nyaga Janeleah Wanja I56/CE/28337/2013	Design of a microcontroller based home access system using a GSM module	Dr. M. Munji Dr. R. Nyenge	1 <sup>st</sup> progress 26/4/2017
218	Makunda Crucifixa Maloba I84/32274/2015	Optical and electrical characterization of poly (3, hexylthiophene): phenyl (carbon <sub>60</sub> butyric acid methylester polymer blends doped with hexagonal boron nitride for solar cell applications	Dr. M. Munji Dr. R. Nyenge Dr. C. Migwi	Proposal presented 12/10/2016
219	Daniel Maitethia Memeu I84/32278/2015	Photo-acoustic technique for <i>in vivo</i> malaria diagnosis	Dr. A. Merenga Dr. C. Maina	Proposal presented 12/10/2016
220	Mwenda Phylis Makena I84/32273/2015	Development of Gallium Nitride Ultra-violet light emitting diodes (LEDs) for water disinfection applications	Dr. A. Merenga Dr. W. Njoroge	Proposal presented 12/10/2016
221	Wanjala Omanyi Felix I84/32283/2015	Assessment of human exposure and associated risks due to natural radioactivity in Ortum, Kenya	Dr. N. Hashim Dr. D. Otwoma Dr. S. Handley-Sidhu	Proposal presented 12/10/2016
222	Wanyama Paul Simiyu I84/32277/2015	Influence of silver nanoparticles on thermoelectric behavior of poly (3, 4 ethylenedioxythiophene): poly(styrenesulfonate)/silver metal nanoparticles composites	Dr. C. Migwi Dr. L. Ochoo	Proposal presented on 18/10/2016



223	Njiru Sophy Njoki I84/32285/2015	Modelling and simulation of transport processes of heavy metals and fine sediments in Ruvingaci river	Dr. N.O. Hashim Dr. M. Chege	Proposal presented on 18/10/2016
224	Mwoha Paul Irungu I56/CE/28332/2013	Design and construction of a microcontroller-based human audial noise monitoring system	Dr. M. Munji Dr. A. Kiroe	Proposal presented on 3/11/2016
225	Wekesa Samuel Wasike I56/CE/28366/2013	Positron impact elastic scattering of Barium using distorted wave method	Dr. C. S. Singh Prof. J. Okumu	Proposal presented on 3/11/2016
226	Ontita Zachariah Monda I56/CE/24517/2012	Fabrication and characterization of SnS-SnO <sub>2</sub> :F P-N junction for solar cell applications	Dr. M. Munji Dr. S. Waita	Proposal presented on 3/11/2016
227	Nyabuto Achuka Denis I56/CE/28333/2013	Optical and electrical characterization of Sb <sub>2</sub> S <sub>3</sub> and In <sub>2</sub> O <sub>3</sub> :Sn thin films for photovoltaic applications prepared by solution growth technique	Dr. M. Munji Dr. W. Njoroge	Proposal presented on 10/11/2016
228	Ng'ang'a Benson W. I84/27215/2011	Design and maximization of a vacuum solar water desalination plant	Dr. W. Njoroge Dr. G. Gitonga	Proposal presented on 10/11/2016
229	Rotich Juliah Jerono I56/32290/2015	Preparation and characterization of photocatalytic metal pigmented anodized titanium dioxide thin films	Dr. W. Njoroge Prof. M. Mwamburi	Proposal presented 7/12/2016
230	Awili Edwin	Ground magnetic survey for iron ore exploration in Bukura area, Kakamega county, Kenya.	Dr. W. Ambusso Dr. G. Githiri	1 <sup>st</sup> progress 21/12/2016

	I56/CE/24680/2012			
231	David Muendo Kimenye I56/CE/26181/2011	Mechanical, diffusion and degradation properties of blends of recycled low density polyethylene and castor oil seed shell	Dr. C. M. Migwi Dr. A. S. Merenga	Proposal 11/1/2017
232	Nyambura Catherine I84/ 32272/2015	Risk assessment due to naturally occurring radioactive materials and technologically enhanced naturally occurring radioactive materials in Kilimambogo, Kenya.	Dr. N. Hashim Dr. M. Chege Prof. S.Tokonami	Proposal 18/10/2016
233	David Ndiwa Alfred I56/32292/2015	An experimental and numerical investigation into the effect of blade thickness on unsteady wind performance of vertical axis wind turbines	Dr. D. W. Wekesa Dr. J. K. Gathua	Proposal 22/3/2017
234	Songa Kamwami Luke I56/CE/25842/2014	Analysis of natural radioactivity levels and radiation hazards due to murrum quarried in Malava sub-county of Kakamega county, Nzoia region, Kenya	Dr. N. Hashim Dr. M. Chege	Proposal 5/4/2017
235	Kiprono Vincent I56/CE/25839/2014	Radiometric assessment of natural radioactivity levels and radiation hazard indices for soil samples of Bureti constituency, Kericho county	Dr. N. Hashim Dr. M. Chege	Proposal 18/1/2017
236	Echesa Malack Khabana I56/CE/25851/2014	Natural radioactivity measurement and evaluation of radiation hazards in soil samples of Shinyalu, Kakamega county	Dr. N. Hashim Dr. M. Chege	Proposal 18/1/2017
237	Gichuru Martin Gitonga I56/30742/2015	Optical and electrical characterization of ZnO/TiO <sub>2</sub> based dye-sensitized solar cell	Dr. W. K. Njoroge Dr. M. K. Munji	Proposal 18/1/2017