**CURRICULUM VITAE**

 Name**: PROFESSOR MICHAEL ASANTE (PhD)**

Address**:** Dept. Of Computer Science, KNUST

Tel:0208168613

Email: masante.sci@knust.edu.gh/mickasst@yahoo.com

**1(a.) UNIVERSITIES ATTENDED AND ACADEMIC DEGREES EARNED**

 **Oct 2003- July 2007: University of Reading, United Kingdom.**

PhD. in Systems Engineering, University of Reading, United Kingdom- Specialized in Data Communication, Computer Networks and Computer Security;

**1992-1994: London South Bank University, United Kingdom.**

**MSc, in Scientific Computing and Information Technology** with majors in Data Communication and Computer Networks and Security including Programming with ( C,C++ Visual Basic ,Turbo Pascal, Fortran) and with minors in Instrumentation and Control Engineering, Systems Analysis, Computer Graphics ,Chemometrics and Biometrics.

**1987 to July 1990** - Diploma in Mine Survey at the University of Mines &Technology, (UMaT). Tarkwa, Ghana.

**COMPETENCY**

 I have a solid grounding in Systems design and development, Systems Security, Management, implementation and maintenance of complex information systems TCP/IP protocols (OSPF and BGP) and services (e.g., DHCP, DNS, NTP, SMTP) network performance and capacity analysis tools

* + Network technology (concentrators, hubs, bridges, switches, routers, modems)and Multi-Protocol Label switching (MPLS)
	+ LAN technologies and standards (ethernet/Fast Ethernet/ Giga Ethernet, Wireless LANs)
	+ WAN technologies and standards (T1, frame relay, ATM, ISDN, high speed solutions with Ethernet /Fast Ethernet /Giga Ethernet access)
	+ Structured cabling over copper and fibre and wireless
	+ Wireless Transmission Technologies
	+ Network Management Solutions
	+ IT security technologies such as network firewalls, access control procedures, authentication methods, encryption solutions, anti-virus software applications, VPN products, Public Key Infrastructures, Intrusion Detection and Prevention

**1(b) FELLOWSHIPS HELD WITH DATES**

1. **Ghana Government Scholarship (2003-2007)** tenable at the University of

Reading in the United Kingdom to pursue a PhD. program in Systems Engineering (Digital Electronics, Control Engineering as minors).

**ii. Engineering Science and Physical Science Research Council**

Scholarship (**ESPSR**) tenable in the U.K to publish research papers and also

to attend and present papers at both local and International conferences.

**iii**. **Reading University Staff and Research development grant** for attendance of

 Conferences and Seminars.

**1(c ). MEMBERSHIP OF PROFESSIONAL BODIES**

**1.** Member, Institution of Electrical and Electronic Engineering (IEEE) U.K Chapter, 2003 to Date

ii.Member, Ghana Science Association,**1998 to Date**

2**. UNIVERSITY TEACHING AND RESEARCH EXPERIENCE WITH DATES**

**2(a) Academic Ranks held and subjects taught**

**i**. **01/08/2017-Date:** Associate Professor

ii. **01/01/11- 01/08/17**: Senior Lecturer

 I have been teaching; postgraduate courses in **CSM557-Distributed Systems, CSM542-Network Protocols and Security, CSDF551-IT Security, CSDF 556-Infrastructure Security and MIT 576-E-Commerce and Security.**

In the undergraduate stream, I have been teaching **CSM 477**-**Data Communication, CSM 494 Computer Security and BIT453- IT Security and CSM 183 Introduction to Computers 1 and CSM 184-Introduction to Computers2**

1. **March 1998 to Date –** Lecturer at the Kwame Nkrumah University of Science and Technology, Kumasi;
2. **2003-2007: Demonstrator** at the University of Reading, U.K, School of

 Systems Engineering, Department of Electrical and Electronic Engineering.

Demonstrator at the University of Reading, U.K, School of Systems Engineering, Department of electrical and electronic Engineering. I taught Digital Electronic practical course for Electrical and electronic Engineering part I and II, Computer Science Year I and II and Cybernetics year I and II students

iii. **Sept**. **1994 to March 1997: Lecturer**/**Analyst Programmer,** London College of Computing, College House, 105 Upper Tooting Road, London SW 17 7TX London, U.K as Analyst Programmer/Lecturer

 I developed effective strategies in information Technology Systems for the College, planned and provided on-site analysis of business processes, user requirements analysis, feasibility analysis, managed the college’s local area network and also developed Local area networks for clients.

I also taught students in Data communication, Computer networks and administration, Computer Organization, Programming with C/C++, Turbo Pascal Visual Basic and Website Development.

**1998-date** Lecturer, Kwame Nkrumah University of Science and Technology. I have taught students in Data communication, Computer Networks, Networks Protocols Security and Network Administration, Distributed Systems, Information Security, Programming in Turbo Pascal, C++,Visual basic and Computer Organization and Infrastructure Security.

**Positions held**

**01/08/17 to 08/2019:**  Head, Department. Of Computer Science, Knust

**01/08/13- 01/10/15:** Head, Department. Of Computer Science, Knust

**2(b) POSTGRADUATE THESIS SUPERVISED FROM 2017 to date.**

 **LIST OF MSc/MPHIL STUDENTS SUPERVISED**

|  |  |  |  |
| --- | --- | --- | --- |
| **SN** | **Name of Student** | **Thesis Topic** | **Year** |
| 1 | Byron Nii Marte-Martey  | Propose Reliable and Cluster- Based Energy Aware Routing Protocols for Wireless Micro Sensor Networks. | 2020 |
| 2 | Kofi Nyame Barnes | A Modified artificial Neutral Network to Mitigate Blackhole and Flooding Attacks in Wireless Sensor Networks. | 2020 |
| 3 | Festus Addai | The Impact of Cyber Threat or Attacks on Smart Power Systems. | 2020 |
| 4 | Appiah Kubi Samuel | Use of Feature and Parameters of Machines Learning to Detect Malicious Script on Android Systems. | 2020 |
| 5 | Richard Nkrumah | Using Linear Discrimination Algorithm to Enhance Classification Performance of Web Browser Extracts in Digital Forensics. | 2020 |
| 6 | Mavis Afromeah Asamoah  | K-Nearest Neighbor Classification for DNS Tunneling Detection. | 2020 |
| 7 | OsazuwaVictor Osaro  | Optimization of Optical Network Wavelength and Systems for a More Efficient 5G Network. | 2020 |
| 8 | Adisani Robert  | Internal Threat to Information Security; Counter Measures and Human Factors in Colleges of Education. | 2020 |
| 9 | Kingsley Tsonyake | A Packet Analysis Approach to Reducing Denial of Service Attacks in Cloud Computing. | 2020 |
| 10 | Destina Samani | Computer Aided Tool for Evaluating the Sustainability of Ground water Systems. | 2020 |
| 11 | Bernard Arthur | Securing Morse Code Text Using a Proposed Algorithm. | 2020 |
| 12 | Kenneth Paa Kwesi  | Information security Compliance Behavior in Health Care Information Systems. | 2020 |
| 13 | Obed Appiah | Approximation Techniques for the Reduction of Running Time of Image Pre-Processing Algorithms. | 2020 |
| 14 | David Koku Adama | A proposed Secured Framework for Protecting Financial Institution Data on the Cloud. | 2020 |
| 15 | Emmanuel eshun | Smart Water System Metering Using Wireless Sensor Networks and the Blockchain Technology. | 2019 |
| 16 | Nana Akosua Pinamang Adu | Assessment or Utilization and Challenges facing HIV early Infant Diagnosis.  | 2019 |
| 17 | Sadick Appiah | Enhancing Security and Scalability in Mobile implementation at Virtual Private Network. | 2019 |
| 18 | Micheal Kwadwo Owusu Dua | Effects of Medical Resonance Imaging Procedure on Patients Vital Signs.  | 2020 |
| 19 | Isaac Osei | Improving Data security Using Video Stenography, Advance Encryption standard Diffie Hellman Key Exchange Protocol, Deflate Compression and Hybrid edge Detection. | 2020 |
| 20 | Patience Boatemaa | Comparing the Use of Artificial Neural Network and Support Vector Machine Approaches for Forecasting Electricity Load in Ghana. | 2020 |
| 21 | Simon Woli | Alleviation the Security Risks of SIP Based Attacks on VoIP Networks Using MPLs. | 2020 |
| 22 | Yaw Boakye Nketia | Effects of Digital Eye Strain on Eye Sight and Vision among Health Trainees. | 2019 |
| 23 | Roger Bongpied  | An Enhanced Secure Multi Media File Storage on Cloud Using Hybrid cryptography.  | 2019 |
| 24 | Martins Kelvin  | Evaluating the Security Orientation of University Networks Using Proposed Vulnerability Assessment Framework with Validation Using a Penetration Model.  | 2019 |
| 25 | Kwaku Oppong Boateng | Enhanced Case-Based Reasoning Phishing Detection System (Algorithm) Feature Selection. | 2019 |
| 26 | Michael Asiedu Amanor | A Spatial Multi Criteria Evaluation Approach to Estimating Malaria Risk. | 2019 |
| 27 | Bismark Osei Tufour  | Analysis of Automobile Can (Controller Area Network) Bus Vulnerability and its Impact on Fuel Economy. | 2019 |
| 28 | Teddy Osei Bonsu | An SDN Simulation Study of Load Balancing Algorithms Performance Using MiNET with POX Controller.  | 2018 |
| 29 | Isaac Kyere | Using Riverbed (OPNET) IT Tools to simulate and Test Cloud Computing and Security Issues of Hybrid Cloud Under Varying Firewall Conditions. | 2018 |
|  30 | Augustine Amura | An Efficient Data Transmission Strategy for Node to Node Based on Internet of Humans (IoHs). | 2018 |
| 31 | Abu Karim | Analysis of Malware Intrusion of an Organizational Network. | 2018 |

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| 32 | Afadzi Francis Kwesi Abam | Energy Efficient and Law Latency Routing Protocol for Wireless Sensor Networks. | 2018 |
| 33 | James Kusi Owusu | Investigation of Asynchronous Transfer Mode Adaptation Layers and Services on the Performance of a Network. | 2018 |
| 34 | Kabiobayo Kwame | Impact of TCP Connection Mechanism on Server Throughput and Response Time.  | 2018 |
| 35 | Jeff Gbate | Improving Network Security by Sanitizing Network Topological Information to Encapsulate. | 2018 |
| 36 | Eric Opoku Osei | Routing Protocol Redesign for Scalability in Wireless Sensor Network Application. | 2018 |
| 37 | Christina Twumasi | Implementation of Computer Aided Instructions (CAI) in Curriculum Specified Content in the College of Education Ghana. | 2017 |
| 38 | Adu Sakyi Derek  | Analysis of Cloud Computing Infrastructure and Security Mechanisms for Protecting End-User  | 2017 |
| 39 | Kornyo Oliver | Fraud Detection Process in Data Mining using Adaptive and Rule Learning algorithm Techniques. | 2017 |
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| Felix Larbi Ayeh |

 | Proposed Architecture of a secure Wlan Base on Security Analysis of an Existing Campus Wlan | 2017 |
| 41 | Michael Tuffour | Assesing the Impact of VPN (MPLS and IPSEC) on the Net Work Multi Campus University System | 2017 |
| 42 | Prince Kweku Santiago | Assessing the Adoption of Radio Frequency Identification (RFID) to improve Patient Safety. | 2017 |
| 43 | Seth Alonyo | Integrated Security Using Gre Over IPSEC-VPN for Polytechnics Wide Area Network. | 2017 |
| 44 | Mavis Sarah Gyimah | Classification and Recognition of Fingerprints Using Self Organising. | 2017 |
| 45 | Lily Edinam Bensah | Use of Virtual Worlds in Distance Education in Ghana. | 2017 |
| 46 | Agbesi Samuel | Investigating the Applicability of Implementing E-Voting System in Ghana | 2017 |
| 47 | Emmanuel Mensah | Investigating the Applicability of Implementing E-Voting System in Ghana | 2017 |
| 48 | Asare Tei Bismark | Investigating Factors that Affect individuals in Adopting Mobile Banking. | 2017 |
| 49 | Christopher Anaba Allem | The Useage Of ICT in the Rural Urban Digital Divide Among Non-Tertiary Schools in Ghana. | 2017 |
| 50 | Afriyie Rockson | Optimizing Storage Resources Using Morpheme-Base Text Compression Technique. | 2017 |
| 51 | Mavis Serwah Yeboah | Reducing Cost and Traffic Congestion for a Proposed Computer Network Design of a Don Bosco Senior High by Applying the Minimum Spanning Tree (MST) and shortest Path (SP) Algorihgm. | 2017 |
| 52 | Agbenyegah Francis Kwadwo | Investigating the Firewall security and Network Performance Relationship in Distributed System | 2017 |
| 53 | Eugene Louis Batie Badozanoly | Mobile Payments in Ghana Insurers Opportunity for Competitive Ede and Cost Reduction | 2017 |
| 54 | Destiny Kwabla Amenyedzi | Establishing the Need for Mobile Learning in Higher Education in Ghana’s Distance Learning. | 2017 |
| 55 | Kwaku Duah | Security of Data in Motion on a Networked Environment | 2017 |
| 56 | Stephen Bempah Owusu | Mobile Device tracking Using Location Based Service and Wireless Local Area Network (WLAN). | 2017 |
| 57 | Asante George | Investigating Why Ghanaian Companies will choose or not choose to implement B2B Application Integration | 2017 |
| 58 | Albert Neequaye Kotey | Design and Implementation of Virtual Private Network Using GSM Network Via Packet Switch Core. | 2017 |
| 59 | IBN Abdulrahman Umar Farouk | Fuzzy Logic Approach to Credit Scoring for Micro Finances’ in Ghana | 2017 |

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| 60 | Agyeiwaa Beatrice | Improving the Quality of Server in Intrusion Detection in Distributed Multimedia Application. | 2017 |
| 61 | Alhassan Mohammed Shamudeen | Decision support Tools in Medicine Approach for Evidence- Based Medicine in Tamale Hospital. | 2017 |
| 62 | Henry Kweku Aidoo | A study of Quality of Medical Referrals at Korle-Bu teaching Hospital. | 2017 |
| 63 | Kuatudor David | Factors that Influence Maternal Mortality. | 2017 |
| 64 | Gmagna Emmanuel Donkor | Implementing Electronic Medical Record (EMR) System  | 2017 |
| 65 | Faustina Amoako Acheampong  | The Value of Health Management Information System. | 2017 |
| 66 | Regina Naa Dedei | Secure Energy Efficient Cluster- Based Routing in Wireless. | 2017 |
| 67 | George Asante | Leveraging VOIP on Local Area Network Using Java Media Framework. | 2017 |
| 68 | Kwabena Kyeremateng | Monitoring Network User’s Packet Analysis. | 2017 |
| 69 | Joseph Gyasi  | Implementation of an Effective E-Commerce System to Enhance Buying, Selling, Advertising and Production of farm-Products in Ghana. | 2017 |
| 70 | Kweku Duah | Security of Data in Motion on a Networked Environment. | 2017 |
| 71 | Aboagye Siam Philip | Optimizing the Dynamic Index structure for Spatial Searching Using R-Tree. | 2017 |
| 72 | Samuel Fokuo | Electronic Commerce in Ghana Prospects and Challenges with Particular Reference to Electronic Payment. | 2017 |
| 73 | Tattrar Paapa Leo | Comparative Analysis of AODV, DSR, OLSR and Tora Routing Protocols. | 2017 |
| 74 | Aloysius Bampia Bangura | Design Hybrid Security Steganography Using Selected Least Significant Bit, Symmetric and Asymetric Key Encryption Method for multimedia Androids. | 2017 |
| 75 | Patrick Doe Fiawoyife | Performance evaluation of TCP in Mobile ad Hoc Networks Using OPNET. | 2017 |
| 76 | Sheriff Issah | Optimizing Information Security in Project Management Information Systems (PMIS) | 2017 |
| 77 | Cynthia Adjartey  | An Improved Search Utility for Click and E- Commerce and Model. | 2017 |
| 78 | Ishmael Baah | Analyzing Data Quality of Credit Reports from Rural and Community Banks for Credit Reference Bureau systems.  | 2017 |
| 79 | Evans Boakye | Optimizing Information Security in Virtual Machine. | 2017 |
| 80 | Daniel Kwame Quansah | Use of Television White Space (TWs) Technology in the Implementation of Telemedicine in Rural Ghana. | 2017 |
| 81 | Gideon Sarpong | Intrusion Detection and Prevention on Campus Network. | 2017 |
| 82 | Gabriel Assamah | The Implementation of Cloud Computing to Support the Information Service in the Public University. | 2017 |
| 83 | Eunice Domfe Asabere | Comparative Analysis of Convergence Times Between OSPF, EIGRP, ISIS and BGP Routing Protocols in a Network.  | 2016 |
| 84 | Doris Ohui Agbettor | The Impact of Information technology on the Management Diabetes. | 2016 |
| 85 | Frederick Aminu Nantogmah | Realtime Communication in Collaborative Telemedicine for community Based Mental Healthcare in Ghana. | 2016 |
| 86 | Godwin Kudjo Bada | Comparative Analysis of the Performance of Networks Intrusion Detection Systems Snort, Suricata and Bro IDSs in Perspective. | 2016 |
| 87 | Abrahim Opoku | Digitization of Enumeration Area Map Using Geographic Information Systems. | 2016 |
| 88 | Oppong Twum Francis | Binary Image Segmentation Through the Carl Fredrich Gauss Equation. | 2016 |
| 89 | Emmanuel Kwabena Gyasi | The Scalability Metric, Based on Cost-Effectiveness in Distributed Systems Using Fundamental Laws. | 2016 |
| 90 | Grace Odoi | Applying Blended Learning at SHS Level- Implications on Students’ performance. | 2016 |
| 91 | Nabere William Kwame | Analysis of Network Performance and Congestion Control in a Hybrid Topology. | 2016 |
| 92 | Christopher Bawiah | Health Information Security Management in Ghana. | 2016 |
| 93 | Eric Appiah Kankam  | Improving and Implementing Management information System in Ghana Education Service. | 2016 |
| 94 | Asare Erasmus | The Impact of subnetting and Super Netting on TCP/IP Network. | 2016 |
| 95 | Ruth Anakwa | The Impact of Monitoring Equipment on Patient Health in a Standard Hospital. | 2016 |
| 96 | Issah Baako | Assessing the Security and Privacy issues in E-Commerce Websites and Electronic Payment Systems in Ghana. | 2016 |
| 97 | Nana Ama Tiwaa-Boateng | The Use OF M-Health Technology for Early Detection and Management of Buruli Ulcer Disease. | 2016 |
| 98 | Kwasi Ansong | Enhancing Security of Virtual Live Migration Production Cloud Corrupting Using Encrypted Access. | 2016 |
| 99 | Koomson Joseph Bob Kow | Assessment of Mobile Health Diagnosis and Treatment of Pregnant Women in Ghana. | 2016 |
| 100 | Amankwa Ebenezer | A Private Infrastructure (laas) Cloud Computing Framework to Manage records in Ghana Education Service. | 2016 |
| 101 | Mohammed Tee Abdulai Baba | An Improved VIOP Using Adaptive Multi Rate (AMR) Encoder. | 2016 |
| 102 | Agyare Rafique | Secure Remote Network Management and Network Access Control. | 2016 |
| 103 | Christopher Kegu | Improving application Data Security in Android Using Binary Code Protection and Obfuscation.  | 2016 |
| 104 | Boansi Kuffour Oliver | A Comparative Performance Analysis of IPV6 Transition Mechanism over WAN Technologies. | 2016 |
| 105 | Nantomah Ibrahim | Securing Mobile Devices in a Wireless Network Using Improved Application Whitelisting Technique. | 2016 |
| 106 | Aidoo Maame Esi  | Enhancing Security in the Mining Industry Using Information Technology Tracking Tools. | 2016 |
| 107 | Stephen Yamoah | Improving Cloud Security and Performance by Using Parallel Firewall.  | 2016 |
| 108 | Charlotte Ama Mensah | Image Segmentation Using an Improved Hybrid Modelling. | 2016 |
| 109 | Adzroe Regina Kafui | Analysis of Electronic Payment Systems in Ghana. | 2016 |
| 110 | Gbedawo Worlanyo Victor | Intrusion Detection and Prevention on Campus Network Using Free and Opensource Software. | 2016 |
| 111 | Juanita Frimpong  | The Influence of Information Security Concerns on the Adoption of Cloud Computing.  | 2016 |
| 112 | Aning Justice  | Effective Monitoring of Power Usage and the Consequences of Illegal Connection. | 2016 |
| 113 | Britwum Mintah George | Modelling Community Characteristics in Community -Based Surveillance Systems for Maternal Analysis and Interventions. | 2016 |
| 114 | Shiraz Ismail | An alternative Multilayer Approach to Detect and Prevent Credit Card Fraud Using the Customers’ Consumption Beahviour.  | 2016 |
| 115 | Eric Komla Dogor | Blended Learning Approach Using Moodle as a Technological Tool, its Impact on Students’ Achievements. | 2016 |
| 116 | Kyei- Dompreh Kofi | Proposed Model for Performance Analysis of WIFI Signal Strength Using Broadcast Measurements.  | 2016 |
| 117 | Esther Amoako | Clinical Appointment Keeping of HIV/AIDS Patients and their Perceptions of Automated Text Messaging Reminders. | 2016 |
| 118 | Vincent Appiah | Improving Security of Website Using Vulnerability Assessment. | 2016 |
| 119 | Owusu Nyarko Boateng | Preventing Data loss in an Organization Using Advanced Encryption Standard Algorithm. | 2016 |
| 120 | Charles Armo-Asuah | Analyzing Server Performance in Cloud Computing on Virtual Network infrastructure. | 2016 |
| 121 | Ebenezer Gyekye Obuobi | Harmonization of National Health Insurance Referral System: Challenges and Threats. | 2015 |
| 122 | Daniel Adjei Odai | Design of IP Network Using GPRS/UMTS/HSPA+ | 2015 |
| 123 | Anthony Kobina Emil Jnr | The Impact of a Centralized Web Based Electronic Health Records System in Ghanaian Health Care Delivery. | 2015 |
| 124 | Amenu Xorseynu Edwin  | The Effective Implementation of Mobile Commerce in Ghana. | 2015 |
| 125 | Kofi Fofie | Analysis of Electrical Power Usage in Houses Using Electrical Distribution Switch. | 2015 |
| 126 | Akomea- Agyin Kwabena | Vulnerability Analysis in Wireless Local Area Networks: A Survey of Some Wireless Access Points in Ghana. | 2015 |
| 127 | Ebenezer Quayson | Enhancing Digital Forensic Model Using Desktop Virtualization. | 2015 |
| 128 | Gideon Evans Norvor | Dynamic Routing Implementation Decision Between OSPF-v3 and IS-IS for Real- Time Application in IPv6 Networks. | 2015 |
| 129 | Akoto – Adjepong Vivian | An Enhanced Non-Cryptographic Hash Function. | 2015 |
| 130 | Nsanya Bimbal | Design and Implementation of an E-Health Application for Management of Maternal and Child Health.  | 2014 |
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| 131 | Nti Issac Kofi | Improving Security Levels in Automatic Teller Machine (ATM) Using Multifactor Authentication. | 2014 |
| 132 | Agyei Jacob | Enhanced Architecture for Platform Independent Connection to the Internet of Things. | 2014 |
| 133 | Charles Mbeah  | Transition Control Protocol Performance Enhancement Network for KNUST Campus. | 2014 |
| 134 | Joseph Adu | Impact of Denial of Service (DOS) /Distributed Denial of Service (DOS) Attacks on the Application layer. | 2014 |
| 135 | Foster Yao Donusem Awani | Performance Analysis on Enhanced Over Open Shortest Path First Protocol (OSPFP) for Void Network. | 2014 |

**2 ( c)**

**MEMBERSHIP OF PROFESSIONAL BODIES**

1. **2003 to date:** Member**,** Institution of Electrical and Electronic Engineering( **IEEE**),U.K Chapter.
2. **1998 to date**.: Member**,** Ghana Science Association,

**( iii) LIST OF PhD CANDIDATES SUPERVISED AND HAVE GRADUATED**

|  |  |  |
| --- | --- | --- |
| **NO.** | **NAME** | **THESIS TOPIC** |
| 1. | DOMINIC ASAMOAH | Human fatigue level characterization and detection Using the Eyelid state and Kalma filter |
| 2 | EDWARD DANSO ANSONG | The design and Implementation of convoluted OS Kernel Architecture for Secured Network Infrastructure |
| 3 | APPIAH OBED | Improving Computational Time Complexities of medium filtering, background updating and histogram generation algorithms using approximation approach |
| 4 | APPIAHENE PETER | Combining Data Envelopment Analysis with Machine Learning Algorithms for Predictions |
|  5 |  KWAME OFOSUHENE PEASAH | Assessing the Degree of vulnerability of Android Mobile devices arising from deleting flaws using Open source forensic tools and addressing the Vulnerability using Headless Block Swapping   |
| 6 | ERIC OPOKU OSEI | Automation of WSN Using LEACH-BBC Routing Protocol |
| 7 | ROSE-MARY MENSAH | Assessing the effectiveness of a Robotic assistive Technology in the therapy treatment for Autistic Children |

**(ii) LIST OF PhD CANDIDATES WITH (ONGOING) THESIS SUPERVISION**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO** | **NAME** | **INDEX NUMBER** | **THESIS TOPIC** |
| 1 | KWAME BOAKYE AGYAPONG | PG2770514 | Analysis of Optimal Algorithm for Data mining and Privacy |
| 2 | GEORGE ASANTE | PG6823116 | Securing Data in a Cloud Environment using Fully Homomorphic Encryption |
| 3 | AUGUSTINA DEDE AGOR | PG2770714 | A Mixed-Cast Scheme to improve Performance in MANETS |
| 4 | UMAR FAROUK IBN ABDUL | PG6823216 | Application of Data analysis for the monitoring of Power Consumption by Consumers using Smart meter |
| 5 | PAUL ARHIN Jr, |  | Optimising Crypto Currency Using Parallel Hardware Accelerators |
| 6 | GEORGEASANTE |  | Securing data Through probabilistic, on-circuit-based fully homomorphic encryption scheme |
| 7 | CHRISTIAN BIEKRO |  | Effective Remote Transmission between RTU and EDUs |
| 8 | DOMINIC DAMOAH | PG2723814 | A fault tolerance framework Extended over graph Query Formulation Dynamics in Graphic data |
| 9 | ANIBRIKA BRIGHT SELORM KODZO | PG5421715 | An Energy efficient Optimum multicast Routing Algorithm(EEOMRA) for improving Mobile Adhoc networks (MANETS) latency using Queuing Network Analysis and Ant colony Optimization Algorithms |

**2(d) Undergraduate Student Project Work supervised (2009-2017)**

1.Freda Kusi 2010 **“** Online Networking System” Dept. Of Computer

 Science,July 2009

 2. Yarzon-Agyei Prince, Tauria Radiat **“**Hospital Management System”

Dept. Of Computer Science,July 2009.

 3. Fareed Mohammed, Korah Francis Kernubel “An Online Clinic

 Management Application” Dept. Of Computer Science,July 2009

 4. Yamoah Steven and Mensah Frank “Automation of Land urveying

 Computational Operations” Dept. Of Computer Science,July 2009

 5. Patricia Edufo Enninful, Charles Roland Haruna “Hospital Management

 Software” Dept. Of Computer Science,July 2009

 6. Kwabena Adarkwa Seth, Arthur Kusi Apau “ Wireless Application

 Protocol” Dept. Of Computer Science,July 2009

 7. Oduro Prince Randy, Ikeme Remigul 2009 “Computerised Database

 Management System for Senior High Schools” Dept. Of Computer

 Science,July 2009

 8. Daniel Kojo Adams, Victor Dela Ocloo “ Social Security Management

 System”Dept. Of Computer Science, July 2009

1. Issahaku Ibrahim,Regina Mawusi Yovonoo,Sani Alhassan “Automation of the Vehicle Examination and Licencing Division” Dept. Of Computer Science, July 2009
2. George P.Asare George P . asare,Kwasi Boadu Amoama,E. Kwabena Gyan-Bediako“ Problems faced by foreign Exchange Bureau and possible solutions to meet standards of Vision 2020” Dept. Of Computer Science, July 2000
3. Asare Boahemaah Valerie, Sefa- Boakye Yaw,Osekre Jeremiah Kwei, Tuzie Christopher “Improving the Cocoa Tracking System For the Produce Buying Company(PBC) from Inland Buying Centres(Societies) to the Ports” Dept. Of Computer Science, July 2000
4. Ayam achonga Justice Ray , Addah Charles Pegase, Kenneth Baidoo Kojo, Agyeman Charles “Computerising the Production Section of Cotton Companies in Ghana” July 2000
5. Mercy Etornam Akusika,Zakaria Ismail Mohamed “ Aproposed Computer system for monitoring the ticketing and Finance sections of an Organization( VANEF STC ADUM BRANCH as case study), Dept. Of Computer Science, July 2000
6. Solomon Nii ampah, Nihadato Deddaa addo Alex Sefa Kissi,Eric

 Addai “ Computerization of the Support Unit of the Bank of Ghana”

 Dept. Of Computer Science, July 2001

1. Michael Brako,Gracious Abeemanso Dasaa,Mavis Sarah Gyimah“A Website Design on Tourist Attractions in Ghana(Case study Ghana Taurist Board, Kumasi” Dept. Of Computer Science, July 2001
2. Agyeman Manu, Samuel Eben Osei, Alfred Gordon Dankwa“Sales Processing and Credit Control System” Dept. Of Computer Science, July 2001
3. Michael Kwabena Aboagye Aldof Kwesi Addison,Gordon Kwakye,Bismark Antwi “Computerization of the Daily Activities of the KNUST Hopital, Dept. Of Computer Science, July 2001
4. Ewuntomah Abdul-Mumuni,Ocran quansah Charles,Iddreisu Ibrahim,John Tenguel “A Proposed Computerized System for Monitoring the Assets and Liabilities of an Organization ( Case study: Agricultural Development Bank-Adum Kumasi” Dept. Of Computer Science, July 2001
5. Kweku H. Appah,Agatha GyapongAngela Mireku ,Joseph Okyere “A computerized System for the Processing of Examination Results within the University(KNUST)”, Dept. Of Computer Science, July 2001
6. Atta Daniel, Agyei Owusu, Poku Gascoigne acheamfour Boateng Lawford “A Redisgned System for the Activities of the Garages(Artisans) and other Organizations(Dealers) associated with Vehicles with respect to Taxation” Dept. Of Computer Science, July 2001
7. Owusu acheampong,antwi Francis,asumadu Baafi Clement,Opoku Williams,“ Computerization of the academic and administrative Procedures of second Cycle Institution” Dept. Of Computer Science, July 2001
8. Dominic Dalynton Damoah, Richard Dankwa, Maxwell Ofosu K, Joyce

Konadu, “Effective Monitoring of Records in the Police, Judiciary and the Prison services in the Kumasi metropolis” Dept. Of Computer Science, July 2001

 23. Ofosu Daniel, Yeboah Ntim Patric,amankwaah kingsley Kwabena” The

 Computerization of the IRS with Reference to Tax Collection, Dept. Of

 Computer Science, July 20091

1. bdul Fatawo Raheem, yussif ahmed Abdul Rahman, Naa Amorkor Obuama-Mensah“Computerized System for Revenue Collection” Dept. Of Computer Science, July 2001
2. Owusu Boateng Kwasi, Alex Kofi Tsortovor, Ama Dankwa” Unearthing the potential of Local area Network in information Transfer” Dept. Of Computer Science, July 2001
3. Akakpo Kwaku Peter Kukuia Gabriel Dadzie, Bremang Appah,Boachie Danso Stephen,“ Computerization of the Accounting Processes in an Organization” Dept. Of Computer Science, July 2001
4. Larbey Michael, Mensah-Onumah Sam, Dzakpasu Yao Charles, Brenya Samuel Nyamekye“ Development of the Human Resource Package to Manage Personnel Records for Kwame Nkrumah University Of Science and Technology, Kumasi” Dept. Of Computer Science, July 2002
5. Kwabena Boua Ankomaku wison Mensah Agyei,Yaw amoakohene Sarpong,John Kofi Coleman“Chatting, Operating a Remote computer on a Local Area Network and Automation of Students Records in the Computer Science Department” Dept. Of Computer Science, July 2002
6. Albert Timothy Abaka,abdul Nasir Asoppiah’Robert Kwame Yeborwo“A Proposed System for the Activities of Insurance Companies” Dept. Of Computer Science, July 2002
7. Addo mallace ansong,Fordjor Christian,koomson Jessica Baaba,Nutsi Ernest“Computerising the labour Exchange Operations of the Labour Department of the Ministry of of manpower Development and employment” Dept. Of Computer Science, July 2002
8. Abdulai Jamal-Dean,George Edua Beesi,Issah Gibrilla,Nwiabu “ A Computerised System for Monitoring the Revenue Collection from shops and Stores with the Kumasi Metropolitan Authority as the case study” Dept. Of Computer Science, July 2002
9. Bright Kwame Kpe, David Sankalaav,Kafui abba,Lizzy-Pearl Addison“ Allocation of medical staff and Equipment Based on Patient attendance and Service Rendered” Dept. Of Computer Science, July 2002
10. Christopher Anaba Allen,Eva Dina Appiagyei,Jones Tailor,Isaac Kwame Antwi“ Statistical Analysis of Unemployment in Ghana with respect to population distribution with Kumasi Metropolitan Area as a case study” Dept. Of Computer Science, July 2002
11. Alhassan Mohamed, Abu Yusif “A proposed Computer system for Monitoring the Ticketing and Finance sections of an Organization(VANEF STC Adum as a case study) Dept. Of Computer Science, July 2002
12. Amankwaah Adu Aikins, Gemegah Emmanuel, Dela “Automation of the

 Network of Activities involved in the Construction of a Building Complex”

 Dept. Of Computer Science, July 2002

 36. Kwame Dankyi Kingsley, Gladys Boateng, Edward Bart Simpson “An

 Information system to Support the Operation of an employment agency”

 Dept. Of Computer Science, July 2002

 37. J Abdul Nasir Assopiah, Robert Kwame YeborwoAlbert Timothy Abakah

 “ Computerization of the activities of Insurance Companies” Dept. Of

 Computer Science, July 2002

 38. Antwi Ama Dankwa, Owusu Boating Akwasi, Tsotorvor, Alex Kofi

 “ Automation of Telecommunication System in an Organization Using an

 Embedded System” Dept. Of Computer Science, July 2002

 39. Michael Kwabena Aboagye, Adolf Kwesi Addison, Bismark Antwi, Gordon

Kwakye “ Computerization of the Daily Activities of the Kwame Nkrumah University of Science and Technology”, Dept. Of Computer Science, July 2002

 40. Gideon Agbanu, Isaac Anipare, Hanna Dordoe, Carl Wemegah

 “Computerization of Land Registration and the Town and Country Planning”

 Dept. Of Computer Science, July 2002

**3( a) DETAILS OF RESEARCH UNDERTAKING SINCE LAST APPOINTED TO THE UNIVERSITY**

My Areas of research includes Network Protocols, Network Architectures, Wireless Networks, Mobile Internet Protocol Convergence and Ubiquitous Systems, Network Security, Distributed Systems, Computer System Security, Multimedia Compression Techniques and Standards, Wireless Multimedia Transmission, Cross- layer Optimization and Voice-over Internet Protocol

 **LIST OF PUBLICATIONS RESULTING FROM MY RESEARCH**

1. **Michael Asante**, Francis Kwadzo Agbenyaga, James Owusu (2021) “Effect of Asynchronous Transfer Mode Adsaptation Layers and Service class on Network Performance “International Journal of Computer Applications (0975-8887),Vol 183- No. 10,June 2021.
2. Vivian Akoto, Agyapong, **Michael Asante** (2020) “An Enhanced Non-Cryptographic Hash Function”April 2020,International Journal of Computer Applications 176(15):10-17 DOI: [10.5120/ijca2020920014](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.5120/ijca2020920014?_sg%5B0%5D=yoSr8oQLHzbeaUB61cV1b9c0TuewSK6qkgteERt6XfaDJSfpJy6FkxoaMFhYQ2e5zfSA3P2RsDYEDD7z2CDEzxegfQ.rUysaolldkmoTg_wVZEeDeZj6a0xQSGIKqMZjc_QHgPGaCVvn7tMjj8AzXtIx_-4BUO23CGFMxR_FqjY5XqXFA)

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3. AbeoTimothy Apasiba**,**J. B. Hayfron-Acquah**,** J. K. Panford**, Michael Asante** (2015)

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7. **M. Asante** and R.S. Sherratt (2006), “Performance Analysis of the Impact on Both the Redundant Equipment and Link Failure Repair Paths in Convergence Mobile IP Transactions Utilizing MPLS”, International Conference on Internet Computing, Las Vegas, USA, 27-30 June 2006, pp. 448-452
8. **M. Asante** andR.S Sherratt (2004**) “**Convergence Switching and its application to Mobile Internet Protocol utilizing Multiprotocol Label switching “IEEE Conference on Communications, Hertfordshire, U.K 5-7April, 2004,pp185-186
9. **M. Asante and** R.S Sherratt (2005) **“**Performance Analysis of delay and packet Prioritization in convergence Mobile IP Transactions in MPLS Networks” IEEE/IEE/IOP/EPSRC Research Conference in Electronics, photonics, Communications, Networks and Computing Science, Lancaster, U.K, 30th March-1stApril, 2005, PREP.
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13. **M. Asante** (2008**)** “Effects of Duplex Conflict on a Network and how it can be rectified for effective Network performance” 2nd College of Science Research Conference, HO, and 10-29 July, 2008
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 4. Exhibitions - Nil

 5. **Conferences and Seminars and Workshops at which papers were read**

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6. **List of all other publications**

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2. **M. Asante** (2008)“Effects of Duplex Conflict on a Network and how it can be Rectified for effective Network performance” 2nd College of Science Research Conference ,HO, 10-29 July,2008

**ii. COPIES OF SELECTED PUBLICATIONS FOR EXTERNAL ASSESSMENT FOR PROMOTION**

 **TO PROFESSORSHIP**

|  |  |  |
| --- | --- | --- |
| SN | **TITLE OF PUBLICATION** |  WEIGHTING |
| 1 | **Michael Asante**, Francis Kwadzo Agbenyaga, James Owusu (2021) “Effect of Asynchronous Transfer Mode Adaptation Layers and Service Class on Network Performance “International Journal of Computer Applications (0975-8887),Vol 183- No. 10,June 2021. | 10 |
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| 10 | Mohammed Tee A.B, **Michael Asante**, Frimpong Twum (2019) “ An Improved VoIP using adaptive Multi-rate Encoder(AMR)” International Journal of Computer Applications(0975-8887, Vol175-No51,2019 | 10 |
| 11 | Francis Kwadzo Agbenyegah, **Regina** Kafui Adroe, **Michael Asante(**2018**) “** Analysis ofPayment Systems in Ghana-A case study of Mobile Payment System. Google Scholar, DOI: http://doi.org/10.18535/ijsrm/v616.ec02,June 2019. EC2019-pg17-25 | 10 |
| 12 | Owusu Nyarko Boateng, **Michael Asante**, Isaac Kofi Nti (2017) “[Implementation of Advanced Encryption Standard Algorithm with Key Length of 256 Bits for Preventing Data Loss in an Organization](https://www.researchgate.net/publication/314368854_Implementation_of_Advanced_Encryption_Standard_Algorithm_with_Key_Length_of_256_Bits_for_Preventing_Data_Loss_in_an_Organization?_sg%5B0%5D=K8GbsZ42z0zH3OxILP1I2vrd0aeVi6dPBaEN5UQHFfb3Og_yypY8PmMfNeDxoHuxQsalFxgga6IoNzM.Li-efSItJc6WXUKIrFE0E_qtak1N9KZRzf7EB7f_zkECgS4A6hdsM5GlsXzCxPb2C4n51FbwqhRUjhy2bb61yw&_sg%5B1%5D=ViuReYADyNt3oCKSFEOrS5ExJ57dx8tOJnvZ9YP5Yih_Czovbglal_S2TuucI-EIFEfno-uRrfPJOhLXzOINC_m_IlE.Li-efSItJc6WXUKIrFE0E_qtak1N9KZRzf7EB7f_zkECgS4A6hdsM5GlsXzCxPb2C4n51FbwqhRUjhy2bb61yw&_sg%5B2%5D=obESm7A9UJYbUbIecw_GEjLThgDEFTsweQvb5JcDkje9Cw3tWmpLqK0SdKYpSvYwPUuUV2iRRC4ojvPJPg.Li-efSItJc6WXUKIrFE0E_qtak1N9KZRzf7EB7f_zkECgS4A6hdsM5GlsXzCxPb2C4n51FbwqhRUjhy2bb61yw&_sg%5B3%5D=hPbN2lCWZb5AKZcAHJuUDBurXVgUTJGz2B208ZEj_sLattsDYG_cmjDo52jBryXle9Ym0_xzzqEh5_Ga8TQ8Za1zbLtU.Li-efSItJc6WXUKIrFE0E_qtak1N9KZRzf7EB7f_zkECgS4A6hdsM5GlsXzCxPb2C4n51FbwqhRUjhy2bb61yw&_sgd%5Bsr%5D=1)” International Journal of Science and Engineering Applications Volume 6 Issue 03, 2017, ISSN-2319-7560 (Online | 10 |
| 13 | Rockson Kwasi Afriyie, **Michael Asante**, Edeh Michael Onyema (2020) “Implementing Morpheme-based Compression Security Mechanism in Distributed Systems” International Journal of Innovative Research and Development, vol 9, Issue2, February 2020, ISSN 2278-0211(online) | 10 |
| 14 | Bright Anibrika Kodzo, Benjamin Hayfron Acquah, **Michael Asante**, Ebenezer K. Gavua (2020) “Re-engineering MANET Routing using Ant Colony Optimization: Modelling and Performance study.” International journal of Computer Computer Applications(0975-8887) vol 176,No12,June 2020 | 10 |
| 15 | Bright Anibrika Kodzo, Benjamin Hayfron Acquah, **Michael Asante**, Ebenezer K. Gavua (2020) “A Survey of Modern Ant Colony Optimization Algorithm for MANET: Routing Challenges ,Perceptives and Paradigms International Journal of Engineering, Research and Technology, Vol 9,Issue 05,May2020.ISSN.2276-0181 | 10 |
| 16 | Rose-Mary Owusuaa Mensah, James Hayfron Acquah, **Michael Asante (**2019**)** “Longitudinal Study of interactions among Ghanaian autistic children and Rosye, a humanoid Robot “International journal of Computer Techniques Vol 6, issue2,2019 | 10 |
|  |  **TOTAL** | 160 |

**7a. RECORD OF SERVICE TO THE COMMUNITY**

**SERVICE TO THE UNIVERSITY**

|  |  |  |  |
| --- | --- | --- | --- |
| SN | TYPE OF SERVICE | WEIGHTING | SUPPORTING DOCUMENT NUMBER |
| 1 | **2017-** Negotiated with the World Bank in Collaboration with the Ministry of Communication to set up a **Simulation laboratory** for the Department of Computer Science, KNUST. | 15 | 1 |
| 2 | **01/08/2017 to 31/07/2019**-Head Department of Computer science | 20 | 2 |
| 3 | **01/10/2013 to 31/09/2015** Head of department, Computer Science  | 20 | 3 |
| 4 | **2013**-Negotiated with the Ministry of Communications and National Information Technology Agency (NITA) for ;a) the supply and installation of the TELE- PRESENCE EQUIPMENT currently in use at the IDL International Conference Centre (swimming poolside) .b) the supply of 30 desktop computers (currently setup at the training room of the IDL International Conference Centre c) Negotiated with Ministry of Communication for the donation of 25 Hp scanners to E- learning Centre | 20 | 4 |
| 5 | Mentored Dr Abdul Salaam Gaddafi on his assumption as a Lecturer | 4 | 5 |
| 6 |  Member: Committee To Draft KNUST Policy on PBL/E-Learning | 6 | 6 |
| 7 | **2009-Date**: Coordinator, Pan –African E-Network Project, E-Learning Center KNUST | 15 | 7 |
| 8 | **June, 2012-2013**: Supervised the design and development of E- learning Software for Institute of Distance Learning (IDL) KNUST | 20 | 8 |
| 9 | **Oct,2011-Oct, 2013***,* ICT Consultant, KNUST  | 20 | 9 |
| 10 | **2010-**negotiated with the Ministry of Communication for the donation of two hundred and fifty thousand US dollars($250,000) for the development of IT in the departments of Computer Science, Electronic/Electrical Engineering and Telecommunication Engineering | 15 | 10 |
| 11 | **2008 to date** : Reviewer JUST,  | 8 | 11 |
| 12 | **November ,2011**- Member, 60TH Anniversary Celebration – Affiliation Day Events KNUST | 8 | 12 |
| 13 | **October ,2010-Oct.2013**, Member, KNUST Web content Management Team | 8 | 13 |
| 14 | 2010-2013-Affiliation Committee, West end University College ,KasoaAccra | 8 | 14 |
| 15 | **February 2009- October, 2013**- Member tender Evaluation PanelKNUST | 8 | 15 |
| 16 |  **Oct,2009- Dec,2020***–*Member, ICTManagement Committee*,* KNUST  | 8 | 16 |
| 17 | **22009-2013**-Member - Planning and Resources Committee, KNUST | 8 | 17 |
| 18 | **2 2010-2013**: Member: Committee on Memorandum of Understanding between KNUST and Ghana-India Kofi Annan ICT Training Center of Excellence  (AITI-KACE)  | 8 | 18 |
| 19 | **FEB.2015**-Member: Committee to Develop Artificial Intelligence Program | 8 | 19 |
| 20 | **May,2021-Date ,** Member Postgraduate scholarship Scheme Committee | 8 | 20 |
| 21 | **Dec, 2014** - Member- Committee to draft KNUST Policy on PBL/E-Learning | 8 | 21 |
|  | **TOTAL** | **235** |  |

 **RANK: HIGH**

**7b)**

**SERVICE TO COMMUNITIES OUTSIDE THE UNIVERSITY (NATIONAL)**

|  |  |  |  |
| --- | --- | --- | --- |
| SN | ITEM | WEIGHTING | DOCUMENT NUMBER |
| **1** | **2021-**Member Appointment and Promotions Committee, AKENTEN APPIAH-MENKA University of Skills Training and Entrepreneurial Development(AAM-USTED) | 10 | 22 |
| 2 | **2019-Date**:Member, Micro Finance and Small Loans Centre (MASLOC**)-OFFICE OF THE PRESIDENT OF THE REP. OF GHANA** | 8 | 23 |
| 3 | **2008-Date**: Member and Chief examiner: International Committee on Planning, Moderation and design of the Preparation of Information and Communication Technology Syllabus and examination questions for Senior Secondary/ Technical Schools West African Examinations Council(WAEC) | 20 | 24 |
| 4 | **2015-Date** - Editorial Board Member/ Reviewer, International Journal of Advanced Foundation in Computer (IJAFRC) | 10 | 25 |
| 5 | **a.May 2010- 2019**: Moderator, Accra Institute of Technology (AIT), Accra b. **Dec.2014- 2019** :Moderator, Ghana Technology University College, (GTUC) *c.* **May.2009-August,2017***-*Moderator ,Garden City University College*)*D .**Oct.2012-2019**:Moderator University College of Agriculture | 10 | 26 |
| 6 | **October 2010** to **Date**-Member Committee on Tertiary institutions campus Network Project,- World Bank Project | 8 | 27 |
| 7 | a. **Nov2020**: Assessor for promotion to Associate Professor-Dr. Daabo, C K Tedem University of Technology and Applied Science, Navrongo b. :Assessor for promotion to Associate Professor-Dr. Edward Baagyere, C.K Tedem University of Technology and Applied Science, Navrongo | 10 | 28 |
| 8 | a. Assessor for Promotion to Senior Lecturer- Nana Kwame Gyamfi, Kumasi-Polytechnicb.**.** Assessor for Promotion to Senior Lecturer- Dr. Asare Yaw Obeng – Kumasi-Technical university**c.** Assessor for Promotion to Senior Lecturer- Mrs. Emelia Opoku Aboagye – Kumasi-Technical universityd.Assessor for Promotion to Senior Lecturer- Ms. Mary Opokua-Ansong – Kumasi-Polytechnic | 10 | 29 |
|  | Assessor for Promotion to Senior Lecturer- Mr. Francis Ohene Boateng- University of Education Winneba | 10 | 30 |
| 9 | Assessor for Promotion to Senior Lecturer, Dr. Edward B. Yellakuor, University of Development Studies, Tamale | 10 | 31 |
| 10 | Assessor for Promotion to Senior Lecturer- Mr. Patrick Kwabena Asabere- University of Energy and natural Resources(UENR) Sunyani | 10 | 32 |
| 11 | a. Assessor for Promotion to Senior Lecturer -Dr. Nana Yaw Asabere ,Accra Technical Universityb. Assessor for Promotion to Senior Lecturer- Mr. Sylvester Hatsu, Accra Technical University | 10 | 33 |
| 12 | Assessor for Promotion to Senior Lecturer- Mr. George Essah- Presbyterian University College, Ghana | 10 | 34 |
| 13 | **2018-date:** Reviewer -International Journal of Advance Foundation and Research in Computer | 10 | 35 |
| 14 | a. Assessor for Promotion to Senior Lecturer- Dr. Abdulai-Lateef Yussif- University of cape Coast ,College of Agriculture and Natural Sciences, Office of the Provost, Cape Coast, Ghanab. Assessor for Promotion to Senior Lecturer- Henry Osborn Quarshie- University of cape Coast ,Directorate of academic affairs, Institutional affiliation Office, Cape Coast, Ghana | 10 | 36 |
| 15 | a. Assessor, PhD Thesis: Peter A. Agbedemnab (Genetic Algorithm and Residual numbers based Data encryption and decryption Techniques), University of Development Studies, Graduate School Tamaleb. Assessor, PhD Thesis: Fuseini Jibreel( Energy Efficient Cluster Based heterogeneous Routing protocol for large scale Wireless sensor networks) University of Development Studies, Graduate School Tamale.Assessor,PhD Thesis: Salamudeen Alhassan ( Design of perception-video encryption Algorithm for Content Providers) University of Development Studies, Graduate School, Tamale | 10 | 37 |
| 16 | Assessor, PhD thesis Ian Yaw Asare, Ghana Technology University, Accra | 10 | 38 |
| 17 | Coordinator: Collaboration between KNUST and the Republic of South Sudan for the Establishment of a Centre at South Sudan to Run KNUST Programs in South Sudan | 20 | 39 |
| 18 | Coordinator, ICT FUND FOR KNUST | 20 | 40 |
| 19 | Coordinator, Tertiary institutions Campus Fibre Optic network project | 20 | 41 |
| 20 | Report from quality assurance unit(Supporting document (42) | - | 42 |
| 21 | Peer/Professional Evaluation Teaching Form | - | 43 |
|  |  **TOTAL** | **226** |  |

 **RANK: HIGH**

8.

**EVALUATION OF MY TEACHING**

|  |  |  |
| --- | --- | --- |
| **ITEM** | **Response** | **WEIGHTING** |
| Teaching load | 12 Hours per week | 10 |
| Regularity and punctuality at lectures | Always present at lectures | 10 |
| Preparation of lecture notes, PowerPoint slides, handouts | Power points slides | 10 |
| Provision of learning experience for students | Practical/field trips are organized for students | 10 |
| Ability to complete syllabus | Syllabus are always completed for all courses taught | 10 |
| Quality of Examination Questions | Quality Examination questions are set always as they are moderated by second examiner and the head of department | 10 |
| Punctuality in setting examination questions and marking | Examination questions and marking of scripts are always done on time | 10 |
| Comments of External examiners and moderators on questions and marking schemes | \_\_\_\_\_\_ | \_\_\_\_\_ |
| Supervision of project works and thesis of undergraduate and postgraduate students | Currently supervising 10 PhD students and 40 MPhil/MSc Thesis and 30 undergraduate projects | 10 |
| Student reaction to assessment of applicant’s teaching and supervision | Report from quality assurance unit(Supporting document( 43) | 10 |
|  | **TOTAL** | **90** |

**RANK: HIGH**

**SUPPORTING DOCUMENTS (1-43)**