

UIMAT
At A Glance

July, 2015



Prof Eric Y. Danquah (*Council Chairman*)



Prof Jerry S. Y. Kuma (*Vice Chancellor*)



Prof S. Al-Hassan (*Pro Vice Chancellor*)



Mr Emmanuel K. Bedai (*Registrar*)



Mr Ebenezer Appiah-Kubi
(*Finance Officer*)



Ms Korklu A. Laryea (*Ag. Librarian*)

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Overview of UMaT

The University is situated approximately on a 1.39 square-kilometre campus of undulating land and pleasant surroundings, about 2 kilometres south of the town of Tarkwa. The campus presents a panorama of beautiful old as well as modern buildings interspersed with verdant lawns and tropical flora which provide a cool and refreshing atmosphere congenial to academic work. Within the short period of its existence, it has become an important centre for the training of engineers and technologists not only for Ghana but also for other African countries as well as other parts of the world.

UMaT has three halls of residence. They are the Chamber of Mines Hall, the Gold Refinery Hall and Dr Michael Tetteh Kofi (K. T. Hall). The Chamber of Mines Hall is located at the western end of the campus. The Gold Refinery Hall is located on a highland at the northern outskirts of Tarkwa. The K. T. Hall is located adjacent to the Chamber of Mines Hall. Each Hall is equipped with kitchen, dining hall and a separate junior and senior common room for junior members.

The Administration Block, the Library, the Faculty Buildings, and the Auditorium occupy the central portion of the grounds. There are two Faculties and a Centre. They are the Faculty of Mineral Resources Technology, Faculty of Engineering and Centre for Communication and Entrepreneurship Skills (CENCES). In addition, there is a School of Postgraduate Studies which co-ordinates all postgraduate studies in the University.

Vision and Mission Statements

Vision

The vision of the University is to become a Centre of Excellence in Ghana and Africa for producing world-class professionals in the fields of mining, technology and related disciplines.

Mission

The mission of the University is to:

- Provide higher education with special reference to mining and related fields;
- Promote knowledge through active research; and
- Provide professional services to the national and international communities.

Guiding Philosophy

The philosophy of UMaT is to guide students to develop their intellectual capabilities and appreciate good social and moral values. The major aim is to produce world-class graduates capable of providing useful professional services.

Short History

The University of Mines and Technology (UMaT) started as the Tarkwa Technical Institute (TTI) on 3rd November, 1952 but was officially commissioned by the Government of Ghana, more precisely by His Excellency the Governor of the Gold Coast, Sir Charles Noble Arden Clarke, on 7th October, 1953. In 1961, the Government, upon the advocacy of the Ghana Chamber of Mines, and other middle level manpower for the country's mining and related industries. In that same year, it was reorganized to become the Tarkwa School of Mines (TSM) to train the required manpower for the mining and allied industries in Ghana.

In 1976, the Government took cognizance of the capability of TSM and its strategic location, Tarkwa, which is at the centre of mining activities in the country. As this location gave TSM a special strength for mining education, TSM was affiliated to the Kwame Nkrumah University of Science and Technology (KNUST) as a faculty of the University so as to enable TSM offer degree, diploma and certificate programmes in mining and related fields. The name TSM was changed to KNUST School of Mines (KNUSTSM), Tarkwa. The KNUSTSM, Tarkwa and the Kumasi School of Mines were put together to become the Institute of Mining and Mineral Engineering (IMME).

In 1988, a University Rationalization Committee (URC), commissioned by the Ministry of Education, recommended the development of the School and its conversion into a University. In 2000, the conversion of KNUSTSM into a University was again strongly recommended by Louis Berger Inc. in association with Kwame Asante and Associates in the report on partial commercialization of KNUST.

In 2001, the Council of KNUST considered and approved proposals and recommendations of the Academic Board to merge the School of Mines at Kumasi and the School of Mines at Tarkwa into the Western University College of KNUST, Tarkwa.

On 3rd November, 2004, at exactly 11.35hrs GMT, the Parliament of the Republic of Ghana passed the bill of the University of Mines and Technology into an Act of Parliament. On 11th November, 2004, the President of Ghana gave the Presidential Assent and on 12th November, 2004 the University of Mines and Technology, Tarkwa Act 2004 (Act 677) was gazetted and thus, became a law.

Past Principals, Provost and Vice Chancellor

| | | |
|---------------------------|-----------------|-----------|
| Mr F. W. Philpott | 1st Principal | 1952-1974 |
| Dr Micheal T. Kofi | 2nd Principal | 1974-1994 |
| Dr John K. Borsah | 3rd Principal | 1995-1998 |
| Prof Daniel Mireku-Gyimah | 4th Principal | 1999-2001 |
| Prof Daniel Mireku-Gyimah | Provost | 2001-2004 |
| Prof Daniel Mireku-Gyimah | Vice Chancellor | 2004-2012 |

Members of the University Council

| | |
|--|----------------------------|
| Chairman, Government Nominee | - Prof Eric Y. Dankwah |
| Government Nominee | - Ms Betty Bosomtwi Sam |
| Government Nominee | - Dr Joyce R. Aryee |
| Government Nominee | - Dr Ebenezer K. Hayford |
| Government Nominee | - Dr Anthony Kwesi Aubynn |
| Vice Chancellor | - Prof J. S. Y Kuma |
| Rep., Ghana Chamber of Mines | - Mr Sulemanu Koney |
| Representative, NCTE | - Prof Nii Noi Dowuona |
| Representative, CHASS | - Mr Joe Ocloo Nyamadi |
| Rep., Convocation (Professorial) | - Assoc Prof. V. A. Temeng |
| Rep., Convocation (Non-professorial) | - Mr Andrews K. Doku |
| Representative, Alumni | - Mr Stephen Kofi Ndede |
| Representative, Senior Staff | - Mr Yamar Azuma |
| Representative, Junior Staff | - Mr J. A. Ametorgo |
| Representative, Undergraduate Students | - Mr Ernest Kyei |
| Representative, Postgraduate Students | - Mr Henry Amankwaa Afrifa |

In Attendance

| | |
|--------------------------------|---------------------------|
| Pro Vice Chancellor | - Assoc Prof S. Al-Hassan |
| Finance Officer | - Mr Ebenezer Appiah-Kubi |
| Registrar/Secretary to Council | - Mr Emmanuel K. Bedai |

Principal Officers of the University

Vice Chancellor

Prof J. S. Y. Kuma

PhD (Newcastle), MSc, PgD (Delft), BSc (Ghana), MGHIG, MIAH

Pro Vice Chancellor

Assoc Prof Sulemana Al-Hassan

PhD (Cardiff), PgD, BSc (KNUST), MGHIG

Registrar

Mr Emmanuel K. Bedai

MDM (Ghana), PgD, (GIMPA), BA, Dip Ed (UCC) FGIM, MCIM

Finance Officer

Mr Ebenezer Appiah-Kubi

FCCA, ICA(Gh), EMBA (Ghana)

Librarian (Ag)

Ms Korklu A. Laryea

MPhil (UG), MA (UCL), PgD (Ghana), BEd, Dip. Arts (UCC)

Deans and Heads of Departments (from 1st August 2015)

Deans

| | |
|---|----------------------------|
| School of Postgraduate Studies | - Assoc Prof V. A. Temeng |
| Faculty of Mineral Resources Technology | - Prof Richard K. Amankwah |
| Faculty of Engineering | - Prof Newton Amegbey |
| Students | - Dr Michael Affam |
| International Programmes | - Assoc Prof W. K. Buah |
| Planning and Quality Assurance Unit | - Assoc Prof E. K. Asiam |

Heads of Departments

| | |
|--|------------------------------|
| Department of Geomatic Engineering | - Mrs Cynthia B. Boye |
| Department of Geological Engineering | - Dr E. E. Duncan |
| Department of Mining Engineering | - Assoc Prof Peter A. Eshun |
| Department of Minerals Engineering | - Dr James R. Dankwah |
| Department of Petroleum Engineering | - Dr Samuel Ndur |
| Department of Env. & Safety Engineering | - Dr Grace Ofori-Sarpong |
| Department of Mechanical Engineering | - Dr Anthony Simons |
| Department of Electrical and Electronic Eng. | - Mr S. P. Agbomadzi |
| Department of Mathematics | - Dr Bernard Kumi-Boateng |
| Department of Computer Sci. & Engineering | - Mr Erwin Normanyo |
| Centre for Communication & Entrepreneurship Skills | - Dr Mrs P. B. Mireku-Gyimah |

University Staff

| | |
|--------------------------------------|-----|
| Professors | 5 |
| Associate Professors | 5 |
| Senior Lecturers | 19 |
| Lecturers | 49 |
| Assistant Lecturers | 21 |
| Senior Members (Admin/ Professional) | 22 |
| Senior Staff | 137 |
| Junior Staff | 191 |

Schools, Faculties and Departments

School of Postgraduate Studies.

All the underlisted postgraduate programmes are offered in the University leading to the award of MSc, MPhil and PhD. degrees:

- Geomatic Engineering
- Geological Engineering
- Mining Engineering
- Minerals Engineering

- Mechanical Engineering
- Electrical and Electronic Engineering
- Mathematics

Faculty of Mineral Resources Technology

Departments and Degrees Offered:

- | | |
|---|---------------------------------|
| • Department of Geomatic Engineering | - BSc Geomatic Engineering |
| • Department of Geological Engineering | - BSc Geological Engineering |
| | - Diploma in General Drilling |
| • Department of Mining Engineering | - BSc Mining Engineering |
| • Department of Minerals Engineering | - BSc Minerals Engineering |
| • Department of Petroleum Engineering | - BSc Petroleum Engineering |
| • Department of Env. & Safety Engineering | - BSc Env. & Safety Engineering |

Faculty of Engineering

Departments and Degrees Offered:

- | | |
|--|---|
| • Department of Mechanical Eng. | - BSc Mechanical Engineering |
| • Department of Electrical and Electronic Eng. | - BSc Electrical and Electronic Engineering |
| • Department of Mathematics | - BSc Mathematics |
| • Department of Computer Science | - BSc Computer Sc. & Engineering |

Centre for Communication and Entrepreneurship Skills (CENCES)

The Centre for Communication and Entrepreneurship Skills (CENCES) was established in July 2011 to co-ordinate the teaching and learning of all the non hard core engineering disciplines at the University of Mines and Technology (UMaT).

Student Enrolment for 2014/2015

The total student population of the University currently stood at Two thousand and seventy nine (2079). One thousand eight hundred and thirty three (1,833) were undergraduates and two hundred and forty six (246) were postgraduates.

Admission Requirements

Admission to UMaT is purely based on merit. Over the years the University has undertaken to admit the cream of qualified applicants. Limited vacancies are therefore keenly competed for. Applicants for the undergraduate programmes must have credits in the following subjects for the various programmes:

Faculty of Mineral Resources Technology

All Programmes (Geomatic, Geological, Mining, Minerals, Petroleum and Environmental and Safety Engineering). At least credits in the following core subjects:

- English Language
- Mathematics
- Integrated Science

At least credits in the following elective subjects:

- Physics
- Chemistry
- Mathematics

Faculty of Engineering

BSc Mechanical Engineering

At least credits in the following core subjects:

- English Language
- Mathematics
- Integrated Science

At least credits in the following elective subjects:

- Physics
- Mathematics
- Chemistry or Technical Drawing or Metal Work

BSc Electrical and Electronic Engineering

At least credits in the following core subjects:

- English Language
- Mathematics
- Integrated Science

At least credits in the following elective subjects:

- Physics
- Mathematics
- Chemistry or Applied Electricity or Electronics

BSc Mathematics

At least credits in the following core subjects:

- English Language
- Mathematics
- Integrated Science

At least credits in the following elective subjects:

- Physics
- Chemistry
- Mathematics

BSc Computer Science and Engineering

At least credits in the following core subjects:

- English Language
- Mathematics
- Integrated Science

At least credits in the following elective subjects:

- Physics
- Mathematics
- Chemistry or Applied Electricity or Electronics

The minimum entry requirement is aggregate 36 for applicants with WASSCE and 24 for applicants with SSSCE.

Applicants with Ordinary and Advanced Level Certificates

Applicants must have GCE Ordinary Level Certificate or its equivalent with passes in five subjects including English Language, Mathematics, Physics and Chemistry, and GCE Advanced Level Certificate with passes in Mathematics, Physics and Chemistry.

Mature Applicants

Applicants should be at least 25 years of age and should have SSS or GCE O' Level Certificate with credit passes in five subjects including English Language, Mathematics and a Science subject plus experience in the relevant area of study.

Specially Sponsored or Fee-Paying Applicants

Applicants who satisfy UMaT's minimum entry requirement of aggregate 36 (WASSCE) or 24 (SSSCE) but cannot meet the competitive departmental cut-off aggregate can apply for admission provided they have sponsorship to cover their full fees throughout their study at UMaT. Such applicants must attach a letter of sponsorship from a registered company or organization to the completed application form for admission.

Centre of Communication and Entrepreneurship Skills (CENCES) Certificate in English

The entry requirement is the French baccalaureate (in science) at the highest level or equivalent available in the applicant's country. Applicants who pass the UMaT certificate programme in English and have passes in their International baccalaureate (in science) will be eligible to apply for admission into the UMaT Diploma and degree programmes

Educational Partnerships and Collaboration

UMaT has a fruitful collaboration with leading educational institutions in the sub-region and around the world. UMaT has signed Memoranda of Understanding

(MoU) with the following institutions: Pennsylvania State University, USA, Montana Technology University, USA, University of Missouri-Rolla, USA, the Federal University of Technology, Akure, Nigeria, the University of Cuttington, Liberia and the University of Sierra Leone. The University benefits in terms of research collaborations with the Faculties and staff development. University of Mines and Technology also has a Memorandum of Collaboration (MoC) with Krito Asafo Technology Centre. In September 2010, Maxam Company and UMaT entered into an agreement to run a joint student exchange programme with the University of Madrid, Spain in explosive technology for civil works.

University of South Australia (UniSA) continues to assist UMaT in its sustainable staff development programme. Four scholarships have been awarded to four brilliant engineering graduates to do PhD studies in Mineral Engineering at UniSA. This brings to seven the total number of students who are being trained for UMaT.

The Association of Universities and Colleges of Canada (AUCC) and Association of African Universities (AAU) have launched AAU-AUCC project entitled Strengthening Higher Education Stakeholder Relations in Africa. This project is being funded by Canadian International Development Agency. UMaT and Memorial University of Newfoundland (MUN) Canada put up a proposal for funding to develop strategic plan to enhance University-Oil and Gas sector linkage for UMaT. UMaT was the only University in Ghana whose proposal was selected for sponsorship under the AAU-AUCC component 1 Project.

In the year under review, the Office of International Programmes facilitated the signing of affiliation Agreement/Memorandum of Understanding between each of the following Universities/Institutions: Ghana National Association of Small Scale Miners, Arcelor Mital Liberia Ltd, Memorial University of Newfoundland, Total Ghana Ltd, Air Liquide Ghana Ltd, Ashesi University College.

UMaT Library Facilities

The University Library Complex stocks a wide range of relevant printed and electronic material in all the major disciplines run in the University. It stocks about 7,102 volumes, and subscribes to over 40 periodicals of which only 15 are active. The Library of Congress Classification Scheme is used in classifying the books and arranging them on the shelves. There are author, and classified catalogues. In addition, there are references and restricted loan sections.

University Relations Office

The University Relations Office is under the Office of the Registrar. Its major responsibilities are to project and maintain the good image and identity of the University. It functions as the link between the University, other Universities, corporate bodies and the general public. It publicizes information and activities of the University. The

University Relations Office also hosts the Alumni Centre of the University. The Office, in summary, is the mouth-piece of the University.

Planning and Quality Assurance Unit

The Planning and Quality Assurance Unit (PQAU) has been set up in the University to train the academic staff in teaching and assessment methods and performance of all duties. To ensure quality of teaching and learning in the University, the Unit instituted peer evaluation of lecturers' teaching performance. The assessment is compiled by PQAU and used as a basis to hold discussions with staff to improve upon their performance.