

UMaT

at a glance

July, 2017



Dr Stephen S. Yirenyi
(*Council Chairman*)



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



Assoc Prof V.A. Temeng
(*Pro Vice Chancellor*)



Mr Andrews K. Doku (*Registrar*)

Vacant
(*Finance Officer*)



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

CONTACT INFORMATION

University of Mines and Technology (UMaT), Tarkwa, Ghana

Website: www.umat.edu.gh

Address:

University of Mines and Technology
P. O. Box 237
Tarkwa, Ghana

Tel:+233 31 23 20324

+233 31 23 20280

Fax:+233 31 23 20306

Contact:

registrar@umat.edu.gh

uro@umat.edu.gh

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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, the University 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 K. T. Hall is located adjacent to the Chamber of Mines Hall, while the Gold Refinery Hall is located on a highland at the northern outskirts of Tarkwa. Each hall is equipped with kitchen, dining hall and separate junior and senior common rooms.

The Administration Block, the Library, the Faculty Buildings, and the Auditorium occupy the central portion of the grounds. There are three Faculties in the University. They are the Faculty of Mineral Resources Technology, Faculty of Engineering and Faculty of Integrated Management Science. In addition, there is a School of Postgraduate Studies which co-ordinates all postgraduate programmes 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, petroleum technology and related disciplines.

Mission

The mission of the University is to:

- Provide higher education with special reference to mining, petroleum, technology 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.

Brief 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 redefined the mission of TTI to incorporate the training of mining technicians and other middle level manpower for the country's mining and related industries. In that same year, it was reorganised 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 cognisance 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 Rationalisation 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 commercialisation 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 Michael T. Kofi	2nd Principal	1974 -1993
Dr John K. Borsah	3rd Principal	1993 -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	-	Dr S. S. Yirenkyi
Government Nominee	-	
Government Nominee	-	
Government Nominee	-	
Government Nominee	-	
Vice Chancellor	-	Prof J. S. Y. Kuma
Rep., Ghana Chamber of Mines	-	
Representative, NCTE	-	
Representative, CHASS	-	
Rep., Convocation (Professorial)	-	Prof R. K. Amankwah
Rep., Convocation (Non-professorial)	-	Dr A. Simons
Representative, Alumni	-	Mr S. K. Ndede
Representative, Senior Staff	-	Mr R. P. Baffoe
Representative, Junior Staff	-	Mr J. Woode
Representative, Undergraduate Students	-	Mr H. S. Mohammed
Representative, Postgraduate Students	-	Mr J. O. Adarkwa

In Attendance

Pro Vice Chancellor	-	Assoc Prof V.A. Temeng
Finance Officer	-	
Registrar/Secretary to Council	-	Mr A. K. Doku

Principal Officers of the University

Vice Chancellor

Prof J. S. Y. Kuma

PhD (Newcastle), MSc, PgD (Delft), BSc (Ghana),
FGhIG, MIAH, MGhIE, FASI, FCIDA

Pro Vice Chancellor

Assoc Prof V.A. Temeng

PhD (Michigan Tech.), MSc (Zambia), PgD, BSc (KNUST), MGhIE

Registrar

Mr Andrews K. Doku

MA, BA (KNUST), MIHRMP, FGIM, FCIDA

Finance Officer

Vacant

Librarian (Acting)

Ms Korklu A. Laryea

MPhil (Ghana), MA (UCL), PgD (Ghana), B. Ed, Dip. Arts (Cape Coast)

Deans and Heads of Departments

Deans

Dean, School of Postgraduate Studies	- Assoc Prof W. K. Buah
Dean, Faculty of Mineral Resources Technology	- Prof R. K. Amankwah
Dean, Faculty of Engineering	- Prof N. A. Amegbey
Dean of Students	- Dr M. Affam
Dean, International Programmes	- Assoc Prof E. K. Asiam
Dean, Planning and Quality Assurance Unit (Acting)	- Assoc Prof S. Al-Hassan

Heads of Departments

Department of Geomatic Engineering	- Dr E. E. Duncan
Department of Geological Engineering	- Dr A. Ewusi
Department of Mining Engineering	- Assoc Prof Peter A. Eshun
Department of Minerals Engineering	- Dr Mrs C. B. Boye
Department of Petroleum Engineering	- Assoc Prof G. Ofori-Sarpong

Department of Env. & Safety Engineering	- Dr S. Ndur
Department of Mechanical Engineering	- Dr A. Simons
Department of Electrical and Electronic Eng.	- Mr E. Normanyo
Department of Mathematical Sciences	- Mr S. P. Agbomadzi
Department of Computer Sci. & Engineering	- Dr B. Kumi-Boateng
Department of Technical Communication	- Dr Mrs P. B. Mireku-Gyimah
Department of Renewable Energy Engineering	- Dr C. K. Amuzuvi

University Staff

Professors	5
Associate Professors	7
Senior Lecturers	17
Lecturers	60
Assistant Lecturers	17
Senior Members (Admin/ Professional)	26
Senior Staff	136
Junior Staff	165

School, Faculties and Departments

School of Postgraduate Studies

The underlisted postgraduate programmes are offered in the University leading to the award of MSc, MPhil or PhD degrees:

- Geomatic Engineering
- Geological Engineering
- Mining Engineering
- Minerals Engineering
- Petroleum 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 & Electronic Eng. - BSc Electrical & Electronic
Engineering
- Department of Mathematical Science - BSc Mathematics
- Department of Computer Science & Eng. - BSc Computer Sc. &
Engineering
- Department of Renewable Energy Eng. - BSc Renewable Energy
Engineering

Faculty of Integrated Management Science

Departments:

- Department of Management Studies
- Department of Technical Communication

Student Enrolment for 2016/2017

The total student population of the University currently stands at two thousand two hundred and forty-eight (2,248). Two thousand and twenty-five (2,025) are undergraduates and two hundred and twenty-three (223) are 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:

a) Faculty of Mineral Resources Technology

i. For the Geological, Mining, Minerals, Petroleum and Environmental and Safety Engineering programmes, at least credits in the following core subjects:

- English Language
- Mathematics
- Integrated Science

At least credits in the following elective subjects:

- Physics
- Chemistry
- Mathematics

ii. For Geomatic Engineering

At least credits in the following core subjects:

- English Language
- Mathematics
- Integrated Science

At least credits in the following elective subjects:

- Physics
- Chemistry or Geography
- Mathematics

iii. Diploma in General Drilling

An applicant must satisfy any of the following:

I. SSCE Holders:

Six Passes (A-D) in all subjects which are English Language, Mathematics, Integrated Science, Physics, Elective Mathematics, Chemistry or Metal Work or Technical Drawing or Applied Electricity or Applied Electronics.

II. WASSCE Holders:

- a. Passes (A1-D7) in English Language, Mathematics, and Integrated Science.
- b. Must possess a minimum of C6 in the following subjects: Physics, Elective Mathematics, Chemistry or Metal Work or Technical Drawing or Applied Electricity or Applied Electronics.

- III. General Certificate of Education (GCE) Ordinary Level credits in five (5) subjects including English language, Chemistry, Physics, Mathematics; and General Certificate of Education (GCE) Advanced Level passes in Chemistry, Physics, and Mathematics.
- IV. City and Guilds of London Institute Part III certificate or its equivalent in either Mechanical, Automobile, or Electrical Engineering.
- V. Holders of Certificate of Proficiency in General Drilling (one year course) from University of Mines and Technology, Tarkwa or a recognised institution are eligible.
- VI. Mature applicants: Applicants should be at least 25 years of age and should have SSSC/WASSC or GCE O' Level Certificate with credits in five subjects including English Language, Mathematics and a science subject with experience in the area of study. Applicants must pass a written examination and /or an interview. Mature applicants must also possess birth certificates which are, at least, five (5) years old after the date of issue.
- VII. Foreign applicants with equivalent certificates and grades are eligible.

b) Faculty of Engineering

i. 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
- Mathematic
- Chemistry or Technical Drawing or Metal Work

ii. 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

iii. 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

iv. 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 or Computer Studies or ICT

iv. BSc Renewable Energy 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.

c) Faculty of Integrated Management Science

Department of Technical Communication (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

d) 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.

e) Mature Applicants

Applicants should be at least 25 years of age and should have SSSCE 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.

f) 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.

Educational Partnerships and Collaborations

UMaT currently has academic and educational collaboration with 41 Institutions and also has university-industry links and cooperative relations with 16 companies across the world.

UMaT Library Facilities

The University Library stocks a wide range of relevant printed and electronic material in all the major disciplines run in the University. It stocks over 5000 volumes, and subscribes to 60 periodicals. The Library of Congress Classification Scheme is used in classification of books. It has a computer centre and offers binding services.

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 publicises information and activities of the University. The office, is thus the mouth-piece of the University.

Planning and Quality Assurance Unit

The Planning and Quality Assurance Unit (PQAU) ensures quality of teaching and learning in the University. The Unit conducts students 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. The Unit also organises seminars and workshops for staff training.

Guidance and Counselling Unit

The Guidance and Counselling Unit offers advice and guidance to students and staff in the university. Guidance and Counselling helps to explore and manage whatever is happening in one's life. The services available at the Unit, therefore, are aimed at helping students and staff to cope with and go through difficult situations and provide them with an opportunity to move towards a more satisfying and purposeful life.

Legal Services Unit

The Legal Services Unit is the in-house corporate legal office of the University and is responsible for all legal matters of the University. In carrying out that responsibility, the Legal Counsel handles all aspects of the University's legal services including litigation, and advising the University on all disciplinary matters affecting Staff and Students of the University in relation to the Law, preparing for and on behalf of the University all conveyances including contract agreements, memoranda of understanding, advising the University on all Labour and Industrial matters involving the University and its Unionised Associations on campus.

The Faculty of Integrated Management Science (FIMS)

The Faculty of Integrated Management Science (FIMS) has now become a reality having sprung from the Centre for Communication and Entrepreneurship Skills (CENCES) which was established in 2011 to serve as the nucleus of FIMS, the third faculty of the University.

With the metamorphosis of CENCES to become FIMS, two new academic departments have been established. These are Department of Technical Communication and Department of Management Studies. The Department of Technical Communication (DTC) would run an undergraduate degree programme which is the Bachelor of Science in Technical Communication. DTC runs the One-Year Certificate Programme in English.

The Office of International Programmes

The Office of International Programmes fosters collaborative links with other universities and industry. The Office continues to devote its energy to arranging and overseeing the conditions under which staff and students from UMaT visit sister universities and vice versa. The Office works out the modalities for collaborative research with sister universities and joint publications. It also liaises with industry on collaborative research, placement of students for vacation training and attachment and upgrading of staff from industry. The Office also collaborates with Universities in other countries to exchange students on International Internship and Academic programmes.