

UNIVERSITY OF MINES AND TECHNOLOGY (UMaT), Tarkwa
ENVIRONMENTAL & SAFETY ENGINEERING DEPARTMENT
MSc/MPhil/PhD in Occupational Health and Safety
Timetable for Module
2025 Academic Year

Compulsory Modules

| Semester One | | | |
|------------------|--|---------------------------------|--|
| Date | 8:00 am – 12:00 pm | 12:00 pm – 1:00 pm B R E A K | 1:00 pm – 5:00 pm |
| | Module & Instructor(s) | | Module & Instructor(s) |
| 26-27 Jul 25 | HS 501 Introduction to Occupational Health & Safety Management* I. Mate | | HS 573 Occupational Health & Safety Management Systems F. Krampah |
| 02-03 Aug 25 | | | |
| 09-10 Aug 25 | | | |
| 16-17 Aug 25 | | | |
| 23-24 Aug 25 | | | |
| | | | |
| 30 Aug-31 Aug 25 | HS 571 Occupational Health & Safety Law and Policy I Mate | | HS 551 Research Methods** E. Stern |
| 06-07 Sep 25 | | | |
| 13-14 Sep 25 | | | |
| 20-21 Sep 25 | | | |
| 27-28 Sep 25 | | | |
| | | | |
| 04-05 Oct 25 | HS 579 Artificial Intelligent in OHS Y. Y. Ziggah | | HS 577 Statistical Data Analysis B. Odoi |
| 11-12 Oct 25 | | | |
| 18-19 Oct 25 | | | |
| 25-26 Oct 25 | | | |
| 01-02 Nov 25 | | | |
| | | | |
| 08-09 Nov 25 | HS 575 Project Management A. Tetteh | | HS 561 Critical Thinking and Decision Making S. Asante-Okyere |
| 15-16 Nov 25 | | | |
| 22-23 Nov 25 | | | |
| 29 Nov-30 Nov 25 | | | |
| 06-07 Dec 25 | | | |

**This is a pre-requisite module for those without a background in Occupational Health and Safety*

***HS 551 is a compulsory module for MSc, MPhil and PhD students, it must be done in addition to all other compulsory modules.*

Elective Modules – Human Factors and Ergonomics Options

| Semester Two | | | |
|------------------|---|---|---|
| Date | 8:00 am – 12:00 pm | 12:00 pm – 1:00 pm B R E A K | 1:00 pm – 5:00 pm |
| | Module & Instructor(s) | | Module & Instructor(s) |
| 24-25 Jan 26 | HSE 574 Human Error and Behaviour T. Joe-Asare | | HSE 576 Human-Computer System E. Berefo |
| 31 Jan-01 Feb 26 | | | |
| 07-08 Feb 26 | | | |
| 14-15 Feb 26 | | | |
| 21-22 Feb 26 | | | |
| | | | |
| 28 Feb-01 Mar 26 | HSE 578 Cognitive Ergonomics I. Mate | | HSE 592 Human Factor and Ergonomic Analysis E. Sternn |
| 07-08 Mar 26 | | | |
| 14-15 Mar 26 | | | |
| 21-22 Mar 26 | | | |
| 28-29 Mar 26 | | | |
| | | | |
| 04-05 Apr 26 | HSE 584 Occupational and Environmental Ergonomics J-S Annan | HSE 586 Simulation, Virtual Reality and Advanced Human-Machine Interface F. Larbi Aryeh | |
| 11-12 Apr 26 | | | |
| 18-19 Apr 26 | | | |
| 25-26 Apr 26 | | | |
| 11-12 Apr 26 | | | |
| | | | |
| 18-19 Apr 26 | HSE 588 Work Systems and Safety T. Joe-Asare | HSE 582 Physical Ergonomics I. Mate | |
| 25-26 Apr 26 | | | |
| 02-03 May 26 | | | |
| 09-10 May 26 | | | |
| 16-17 May 26 | | | |

MSc students are to select a minimum of four (4) from the options

- **HS 559 Field/Lab Work and HS 550 MSc/MPhil Seminar are mandatory for all MSc and MPhil students. These courses can be registered in either the first or second semester.**

Elective Modules – Occupational Hygiene Options

| Semester Two |
|--------------|
|--------------|

| Date | 8:00 am – 12:00 pm | 12:00 pm – 1:00 pm B R E A K | 1:00 pm – 5:00 pm |
|------------------|--|---------------------------------|---|
| | Module & Instructor(s) | | Module & Instructor(s) |
| 24-25 Jan 26 | HSH 574 Understanding Physical Agents F. Krampah | | HSH 576 Hazardous Substances M. Seidu |
| 31 Jan-01 Feb 26 | | | |
| 07-08 Feb 26 | | | |
| 14-15 Feb 26 | | | |
| 21-22 Feb 26 | | | |
| | | | |
| 28 Feb-01 Mar 26 | HSH 578 Introduction to Public Health T. Wi-Afedzi | | HSH 582 Principles of Industrial Hygiene J-S Annan |
| 07-08 Mar 26 | | | |
| 14-15 Mar 26 | | | |
| 21-22 Mar 26 | | | |
| 28-29 Mar 26 | | | |
| | | | |
| 04-05 Apr 26 | HSH 584 Occupational Epidemiology and Psychology M. Seidu | | HSH 586 Control of Workplace Hazards F. Krampah |
| 11-12 Apr 26 | | | |
| 18-19 Apr 26 | | | |
| 25-26 Apr 26 | | | |
| 11-12 Apr 26 | | | |
| | | | |
| 18-19 Apr 26 | HSH 588 Occupational Toxicology E. Gyimah | | |
| 25-26 Apr 26 | | | |
| 02-03 May 26 | | | |
| 09-10 May 26 | | | |
| 16-17 May 26 | | | |

MSc students are to select a minimum of four (4) from the options

- HS 559 Field/Lab Work and HS 550 MSc/MPhil Seminar are mandatory for all MSc and MPhil students. These courses can be registered in either the first or second semester.

Elective Modules – Occupational Safety Risk Management Options

| Semester Two | | | |
|--------------|--------------------|--------------------|-------------------|
| Date | 8:00 am – 12:00 pm | 12:00 pm – 1:00 pm | 1:00 pm – 5:00 pm |

| | Module & Instructor(s) | | Module & Instructor(s) |
|------------------|---|--|---|
| 24-25 Jan 26 | HSS 576 Human Factors and Ergonomics E. Stemn | | HSS 578 Occupational Health and Safety Principles in Practice I. Mate |
| 31 Jan-01 Feb 26 | | | |
| 07-08 Feb 26 | | | |
| 14-15 Feb 26 | | | |
| 21-22 Feb 26 | | | |
| | | | |
| 28 Feb-01 Mar 26 | HSS 582 Accident Investigation and Analysis S. K. Boamah/T. Joe-Asare | | HSS 584 Risk Management I. Mate/R. Gyambrab |
| 07-08 Mar 26 | | | |
| 14-15 Mar 26 | | | |
| 21-22 Mar 26 | | | |
| 28-29 Mar 26 | | | |
| | | | |
| 04-05 Apr 26 | HSS 586 Safety Culture Development and Assessment S. K. Boamah/C. O. Amoateng | | HSS 588 Systems Safety J-S Annan |
| 11-12 Apr 26 | | | |
| 18-19 Apr 26 | | | |
| 25-26 Apr 26 | | | |
| 11-12 Apr 26 | | | |
| | | | |

MSc students are to select a minimum of four (4) from the options

- **HS 559 Field/Lab Work and HS 550 MSc/MPhil Seminar are mandatory for all MSc and MPhil students. These courses can be registered in either the first or second semester.**

Elective Modules – Fire, Explosion and Process Safety Options

| Semester Two | | | |
|------------------|--|-----------------------------------|--|
| Date | 8:00 am – 12:00 pm | | 1:00 pm – 5:00 pm |
| | Module & Instructor(s) | | Module & Instructor(s) |
| 24-25 Jan 26 | HSP 574 Fire Dynamics and Modelling | 12:00 pm – 1:00 pm R B E | HSP 594 Explosive Risk Management |
| 31 Jan-01 Feb 26 | | | |

| | | |
|------------------|---|---|
| 07-08 Feb 26 | T. Wi-Afedzi | Johannes Ami |
| 14-15 Feb 26 | | |
| 21-22 Feb 26 | | |
| | | |
| 28 Feb-01 Mar 26 | HSP 578 Fire Risk Analysis T. Wi-Afedzi | HSP 582 Fire Scene Investigation and Failure Analysis Johannes Ami |
| 07-08 Mar 26 | | |
| 14-15 Mar 26 | | |
| 21-22 Mar 26 | | |
| 28-29 Mar 26 | | |
| | | |
| 04-05 Apr 26 | HSP 584 Fire Protection Systems Application F. Krampah | HSP 586 Principles of Process Safety Johannes Ami |
| 11-12 Apr 26 | | |
| 18-19 Apr 26 | | |
| 25-26 Apr 26 | | |
| 11-12 Apr 26 | | |
| | | |
| 18-19 Apr 26 | HSP 588 Safety Instrumented Systems S. Fosu | HSP 592 Control and Process Monitoring Johannes Ami |
| 25-26 Apr 26 | | |
| 02-03 May 26 | | |
| 09-10 May 26 | | |
| 16-17 May 26 | | |

MSc students are to select a minimum of five (5) from the options

NOTE

- All first semester courses are compulsory for all students, both MSc and MPhil.
- MPhil students must take a minimum of 6 compulsory modules
- HS 559 Field/Lab Work and HS 550 MSc/MPhil Seminar are mandatory for all MSc and MPhil students. These courses can be registered in either the first or second semester.
- MSc students are to select four modules from the second semester elective modules based on the area of specialization.
- Student may take modules recommended by the Supervisor(s) to facilitate his/her research work. Again, a student may also take a module to advance his or her professional knowledge.
- Participation fee is GH¢1000.00 per module for registered students.
- Participation fee is GH¢1,400.00 per module for other participants.
- Participation fee is \$500.00 per module for foreign participants.
- Registration closes one (1) week before the commencement of the module