



School of Minerals and Energy Resources Engineering

2. AIMS, LEARNING OUTCOMES AND GRADUATE ATTRIBUTES

2.1. Course Aims

It is intended that the student will be able to acquire the knowledge and skills required to evaluate and analyse ventilation systems for both coal and metalliferous underground mines. Also it is intended that students will also be able to describe the ventilation measures required to control underground hazards.

http://www.acarp.com.au/	Australian Coal Association Research Program
http://www.minerals.org.au	Minerals Council of Australia
http://www.nswmin.com.au	NSW Minerals Council
http://www.qrc.org.au/	Queensland Mining Council
http://www.aspasa.co.za	Safety In Mines Research Advisory Council (South Africa) (Not a permanent site)
http://www.standards.com.au	Standards Association of Australia
http://www.acgih.org/	American Conference Of Government Hygienists
http://www.hse.gov.uk/	Health And Safety Executive UK
http://www.cdc.gov/niosh/homepage.html	National Institute of Occupational Safety Health USA

4. COURSE CONTENT AND LEARNING ACTIVITIES

4.1. Course content

UNSW Week	Date	Topic	Presenter
1	14 Sep	Course Introduction/Airflow	GS
	17 Sep	Fan/Fan Laws	GS
2	21 Sep	Tutorial 1- Airflow and Fan	GS
	24 Sep	Ventilation Services and Network Analysis	GS
3	28 Sep	Tutorial 2- Network	GS
	1 Oct	Mine Gases/ Gas Monitoring	GS
4	5 Oct	Public holiday	GS
	*8 Oct	Laboratory - Duct Resistance/Fan Characteristics	GS
5	**12 Oct	Ventsim Training	GS
	15 Oct	Tutorial 3- Gas / Mid-Term quiz	GS
6	19 Oct	Review mid-term quiz	GS
	22 Oct	Review Q&A session	GS
7	26 Oct	DPM/Dust	GS
	29 Oct	Tutorial 4- DPM/Dust	GS
8	2 Nov	Heat and Psychometric	GS
	5 Nov	Refrigeration/Tutorial 5	GS
9	9 Nov	Spontaneous Combustion	GS
	12 Nov	Gas Reservoir Characteristics, Gas Drainage	GS
10	16 Nov	Coal Mine Practice	GS

Where

Submissions must be made electronically through Turnitin in Moodle unless otherwise stated. Turnitin is a plagiarism checking service that will retain a copy of the assessment item on its

does not have appended at the end of the assignment a completed self-assessment by the student of the assignment using the official *Assessment Criteria* template. *Penalty for non-compliance*: 10 marks.

5.4. Assignment Attachments

Each assignment submitted for assessment must be attached with:

an official School Coversheet at the front of the assignment; and
the requisite Assessment Criteria form at the end of the assignment with the self-assessment completed by the student.

If either or both of these are not attached then the assignment will be deemed non-compliant with the assessment requirements. A non-compliant submission may not be marked and zero marks may be awarded for that assessment item. In any case a minimum 5% of the total marks will be forfeited for that assignment.

A3.0: Assessment Criteria for Laboratory Report
Criteria

Excellent

Good

Satisfactory

Unsatisfactory

