1. INFORMATION ABOUT THE COURSE

Course Code:	PTRL5009	Term:	T1, 2020	Level:	PG	Units/Credits	6 UOC
Course Name:	WebletandOpita						

Course Convenor:	Prof Sheik Rahman		
	School of Minerals and Energy		sheik.rahman@unsw.edu.au
Contact Details Resources Engineering TETB 212	Phone:	+61 2-938-55659	
Contact times	12:00-15:00, TeAt202		

1.1. CeDec **b**

Courses of two parts: Lecture and computer simulation lab.

given an in-depth view of the physical processes involved in drilling oil and gas wells, both on-shore and off-shore.

2.2. Leig Otc en

By the end of this course students will:

- 1. learn the functions and roles of key drilling equipment and apparatus.
- 2. be given an in-depth view of the physical processes involved in drilling oil and gas wells, both on-shore and off-shore.
- 3. learn to select appropriate drilling rig components & equipment as to optimize costs for a given drilling operation (onshore or offshore).

2.3. GadtAlbts

Student please view the link to the **UNSW Graduate Attributes**.

3. REFERENCE RESOURCES

3.1. REc eMailes

Support material for this course including, whenever available, copies of lecture notes, recommended readings, etc. can be found on Moodle.

The lecture note may be viewed and downloaded from the UNSW-Moodle http://moodle.telt.unsw.edu.au/.

3.2. AddRes e

Followings are the recommended books for this course.

- x Drilling Equipment & Operations Course Notes UNSW Australia
- x Applied Drilling Engineering AT Bourgoyne Jr, ME Chenevert, KK Millheim and FS Young Jr. SPE

3.4. Obor 8

There are numerous articles / information sources on reservoir engineering on the web. Many of them are sound, but many are either very lightweight or contain errors. Be very careful in your choice of web sources. Remember, UNSW librarians are usually happy to help you locate articles or make suggestions regarding possible material to help you in your academic work. You can also access basic online help at http://www.library.unsw.edu.au/

3.5. ReWingel

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4.2. LeigAc isseny

UNSW Wk	Ac	Cle
1	Le	x Course introduction and expectations x Power System o Describe the power requirements for different equipment on a typical land or offshore drilling rig. o Identify the modes of power generation. o Understand the different means of power transmission. o Plan & select an optimum (diesel) engine-generator system for a specific drilling operation.
2	Le	x Circulation System o Identify & explain the principal components of a typical mud circulation system: mixing equipment, pits, pumps, mud cleaners etc. o Estimate the volume of mud required for a specific drilling operation. o Determine the power requirements for the circulation of mud. o Understand the different mud cleaning equipment & their operating principles.

COURSE ASSESSMENT

5.1. Alsony

A t an alk	Doale / tev	W l g	Alan	Lenig to en a el
1	End of Week 3 End of Week 5 End of Week 7 End of Week 9	4% (4% x 4)	A ig n	1, 2, 3
2	Week 6	14%	M an	1, 2, 3
3		20%	Lab	1, 2, 3
4		50%	FälExm	1, 2, 3

Assessment of Lab part

A t an alk	Deale/ kev	Wb	Aten	Leig to: ael	B N
1	End of Week 4 End of Week 6 End of Week 8 End of Week 10	50% (12.5% x 4)	Lab A ig n	1, 2, 3	
2	Weeks 1-10	50%	ChsOiz	1, 2, 3	

Assignments related details/submission-box will be available online through Moodle. Access to the Moodle site is via the Moodle icon on the MyUNSW homepage.

6. ASSESSMENT CRITERIA

The assessment criteria provides a framework for you to assess your own work before formallybmisM7n7

- x broadband connection (256 kbit/sec or faster)
- x ability to view streaming video (high or low definition UNSW TV options)

More information about system requirements is available at www.student.unsw.edu.au/moodle-system-requirements

7.4. AC C is is a main of the state of the s

Course outlines, support materials are uploaded to Moodle, the university standard Learning Management System (LMS). In addition, on-line assignment submissions are made using the assignment dropbox facility provided in Moodle. All enrolled students are automatically included in Moodle for each course. To access these documents and other course resources, please visit: www.moodle.telt.unsw.edu.au

7.5. Aign Staten

The School has developed a guideline to help you when submitting a course assignment.

We encourage you to retain a copy of every

special consideration application, no later than one week from submission.

More details on special consideration can be found at: www.student.unsw.edu.au/special-consideration

7.8. Co Rb \$

For details on UNSW assessment policy, please visit: www.student.unsw.edu.au/assessment

In some instances your final course result may be withheld and not released on the UNSW planned date. This is indicated by a course grade result of either:

x WD – which usuallyple

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7.11. Cital Ces Intern

At the end of each course, all students will have the opportunity to complete a course evaluation form. These anonymous surveys help us understand your views of the course, your lecturers and the course materials. We are continuously improving our courses based on student feedback, and your perspective is valuable.

Feedback is given via https://student.unsw.edu.au/myexperience and you will be notified when this is available for you to complete.

We also encourage all students to share any feedback they have any time during the course – if you have a concern, please contact us immediately.