



Rotating Machinery

Offered by The University of Queensland
as part of the Power Generation Skills Development program

Block A: 28 - 30 March and Block B: 6, 7 June 2011, Brisbane

Rotating Machinery

Course code: MECH7350

Course description

This course provides the theoretical and practical background knowledge required to understand the design, construction, maintenance, monitoring, testing, applicable standards, protection, failure mechanisms and failure causes of turbines, generators, motors, fans and pumps used in the power generation industry.

A general knowledge of the power generation practice is required for this course in addition to basic engineering and mathematics skills.

Presenters

Dr Peter Jacobs is a Senior Lecturer in Mechanical Engineering. His research interests include computational fluid dynamics, compressible flows, hypersonics and geothermal power systems.

Professor John Simmons has been involved in mechanical engineering research for over 30 years in the areas of rheology, aeroelasticity, unsteady aerodynamics and hypersonics. The consistent theme running through this work is an interest in dynamic phenomena associated with fluid flows.

Power Generation Skills Development

The Power Generation Skills Development program is a joint initiative of Queensland's three Government-owned power generators, Stanwell Corporation, Tarong Energy and CS Energy and three of Australia's leading universities, The University of Queensland (UQ), Central Queensland University (CQU) and Queensland University of Technology (QUT). The Program offers a range of 16 courses developed specifically to meet the skills and training needs of the power industry. More information is available from www.powergeneration.edu.au

Courses delivered by UQ can be taken on an individual basis or as part of a postgraduate program e.g. Graduate Certificate, Masters of Engineering at any of the partner universities.

Who should attend?

The Power Generation program has been developed to improve the technical competency of professional engineers and those working in para-professional roles within the power sector.

This course will benefit:

- Maintenance supervisors and coordinators
- Plant and maintenance engineering staff
- Operations engineering staff and supervisors
- Technical support staff



Application details

Rotating Machinery (MECH7350) can be taken as a stand-alone (non-award) course at UQ or as part of a postgraduate program offered at each of the partner universities.

Available programs: Graduate Certificate, Graduate Diploma*, Masters.

Application deadline for non-award and/or for students who wish to commence a postgraduate program in power generation at UQ: 31 January 2011

Continuing UQ students are required to enrol online by 1 March 2011.

More information is available at www.powergeneration.edu.au

Price and payment details

\$3520.00 (includes course handouts and refreshments)

Students are issued with an electronic invoice once they are enrolled in the course. Further payment details are available from www.uq.edu.au/myadvisor/payment.

Please note, companies which send more than three employees to a Power Generation course provided by The University of Queensland in a semester may request other payment options.

Venue

Rotating Machinery (MECH7350) will be conducted at The University of Queensland, St Lucia campus, Brisbane. Room and building - to be advised.

Parking is available. A map of St Lucia campus and parking options will be emailed to all participants.



For more information and for contact details, please visit www.powergeneration.edu.au

*Graduate Diploma available at Central Queensland University only



2011 Power Generation Skills Development courses

Course/Subject code	Title	University	2011 Delivery dates	Location
Semester 1, 2011				
EPG001	Introduction to Power Plant	QUT	Block A1: 1 - 3 February Block A2: 8 - 10 February Block B: 8, 9 March	Block A: Tarong Power Station, Nanango Block B: QUT, Gardens Point, Brisbane
ELEC7052	Plant Control Systems	UQ	Block A: 21 - 23 February Block B: 28, 29 April	UQ St Lucia campus, Brisbane
MECH7350	Rotating Machinery	UQ	Block A: 28 - 30 March Block B: 6, 7 June (revised)	UQ St Lucia campus, Brisbane
EPG011	Industrial Electrical Power Distribution	QUT	Block A: 3 - 5 May Block B: 24, 25 May	QUT, Gardens Point, Brisbane
ENPG22003	Plant Materials	CQUniversity	Block A: 11 - 13 May	Gladstone
Semester 2, 2011				
EPG015	Protection of Industrial Power Systems	QUT	Block A: 6 - 8 July Block B: 21, 22 July	QUT, Gardens Point, Brisbane
ELEC7051	Transformer Technology Design and Operation	UQ	Block A: 18 - 20 July Block B: 29, 30 September	UQ St Lucia campus, Brisbane
ENPG22002	Bulk Materials and Waste Products	CQUniversity	Block A: 27 - 29 July	Gladstone
EPG001	Introduction to Power Plant	QUT	Block A1: 2 - 4 August Block A2: 9 - 11 August Block B: 23, 24 August	Block A: Tarong Power Station Block B: QUT, Gardens Point, Brisbane
EPG006	Applied Thermodynamics	QUT	Block A: 6 - 8 September Block B: 11, 12 October	QUT, Gardens Point, Brisbane
MECH7260	Gas Plant and Systems	UQ	Block A: 27, 28 September Block B: 18, 19 October	UQ St Lucia campus, Brisbane
EPG005	Project Delivery	QUT	Block A: 4 - 6 October Block B: 24, 25 October	QUT, Gardens Point, Brisbane
ENPG21001	Asset Management Systems	CQUniversity	Block A: 7 - 9 November	Gladstone

For more information and for contact details, please visit www.powergeneration.edu.au

*Graduate Diploma available at CQUniversity only