

FACULTY OF ENGINEERING

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

Telephone (868) 662-2002: Ext. 82170/82171 ◆ E-mail: mechanical.engineering@sta.uwi.edu

Submit all applications to: Engineering Institute UWI- Tel: 662-6267 e-mail: Continuing.Education@sta.uwi.edu

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Engineering Asset Management [EAM] -2020 Short Courses Designed to Optimize your Asset Integrity with: RCM-TPM-Weibull-Pareto-Ishikawa-FMECA-RCA-Planning and Scheduling-Turnarounds										
	Course	ceive a UWI's Certificate of Participation upon	successful complet	ion of e						
oV	Code	Course Name	Facilitator	Date	Venue	Audience				
		Zoom Presentation on Vibration An	alysis (4 Contact	Hours)						
1	Lectures from the MSc EAM Course	TOPICS: Alignment and balancing Vibration Analysis Proactive Alignment systems with software Maintenance and reliability programs Vibration instruments COST: 1000TTD per participant	Dr. Greg Buscarello Atlanta-USA Certified ISO Category 3 Vibration Analyst	15 th Feb 2020	Sat 9am to 1pm Design Studio 2	Managers, Engineers & Technicians ir Reliability and Maintenance				
	Z	oom Presentation on Maintenance Plannin	g & Scheduling (4	Conta		rs)				
2	Lectures from	A CONDENSED VERSION OF THE TOPICS: The Business Case for Planning and Scheduling Principles & Concepts of Effective Planning & Scheduling Handling Reactive Maintenance Integrating Proactive Maintenance Activities: Preventive, Predictive Projects Effective Workflow and Planning Exercises Controlling Planning & Key Performance Indicators Planning and Scheduling for Plant Turnarounds COST: 1000 TTD per participant	Doc Palmer Atlanta-USA Author of "Maintenance Planning & Scheduling Handbook" (used in The UWI's MSc EAM Programme)	22 nd Feb 2020	Sat 9am to 1pm Design Studio 2 UWI	Managers Engineers Technicians Planners Schedulers				
		Workshop on Vibration Analysis-Case	Studies (4 contac	et Hou	rs)					
3	Lectures from the MSc EAM Course MENG 6703	TOPICS: ☐ Use of equipment and software in vibration Monitoring ☐ Case Studies in Vibration analysis ☐ Field techniques in vibration used to solve problems ☐ Guides to the Interpretation of vibration Analysis readings ☐ New Trends in Vibration Analysis ☐ COST: 1500 TTD per participant	Mr Haffiz Yathali CMRP Managing Director YATZ Engineering Limited.	29 th Feb 2020	Sat 8.30am to 12.30pm Room 5 Block 6	Managers Engineers and Technicians in Reliability and Maintenance				
	Maint	tenance Analysis & Optimization-one of the	e EAM MSc course	(32 C	ontact 1	nours)				
4	Lectures in the MSc EAM Course- MENG 6704 'Maintenance Analysis and Optimization'	TOPICS: ⊃ Physical Asset Management Maintenance Policies ⊃ Weibull Analysis and other statistical tools/software ⊃ Component Replacement Decisions ⊃ Inspection Decisions & Spare Parts Provisioning ⊃ Capital Equipment Replacement ⊃ Maintenance Resource Management ⊃ Evidence Based Asset Management (EBAM) COST: 6500 TTD per participant	Professor A.K.S. Jardine University of Toronto Author of "Maintenance, Replacement, & Reliability Theory & Applications" (used in The UWI's MSc EAM programme)	14-15 March 2020 28-29 March 2020	Sat and Sun 9am to 5pm Room 5 Block 6 LT3 and Design Office 1	Managers Engineers Senior Technicians in Reliability and Maintenance				



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No	Course Code	Course Name	Facilitator	Date	Time & Venue	Target Audience				
	Strat	tegies for the Optimization of Asset Integri	ty in all Industrie	s (6 Co	ntact h	ours)				
5	Courses- MENG 6704 'Maintenance Analysis and	 DAY ONE WORKSHOP: ⇒ Basics statistical calculations and decision-making analyses for the non-engineer. ⇒ Failure Analysis and Decision making Processes for optimal Maintenance and ⇒ Reliability recommendations in the Heavy and Manufacturing environment ⇒ Strategies to optimize the Implementation of improvement decisions in Maintenance and ⇒ Reliability from the Strategic Plan to the Daily Plan 	Professor A.K.S. Jardine University of Toronto Author of "Maintenance, Replacement, & Reliability Theory & Applications" (used in The UWI's MSc EAM programme) Mr. Kishore Jhagroo Senior Lecturer – UWI Coordinator - MSc EAM Retired Maintenance	16 th March 2020	Mon 1.30pm to 7.30pm Room 1 Block 13 UWI	Managers Engineers Senior Technicians in Reliability and Maintenance				
		COST: 1500 TTD per participant	Manager with 37 years of field experience.							
		m Presentation Machine Learning and Artif	icial Intelligence	(4 Con	itact Ho	ours)				
6	Lectures from the MSc EAM Course	TOPICS: ☐ Introduction to data science, AI and machine learning (ML): - History of AI and other Concepts in AI and ML ☐ Basic ML algorithms: - Supervised learning: * Algorithms and case studies * Deep learning and case studies - Unsupervised learning: * Clustering algorithms and case studies - Reinforcement learning: * Markov decision processes * Basic algorithms: Q-learning, SARSA, DQL ☐ Issues and remedies: - Sample efficiency and transfer learning - Safety - Explainability ☐ Other emerging technologies - Industry 4.0 - Digital twin COST: 1000 TTD per participant	Professor Chi-Guhn Lee University of Toronto	21st March 2020	Sat 9am to 1pm Design Studio 2 UWI	Managers Engineers & Technicians in Reliability and Maintenance				
		Optimization of Plant Turnaround/ Shutdo	wn Processes (8 c	ontact	t Hours)					
7	Lectures from the MSc EAM MENG 6702 'Work Planning and Scheduling'	TOPICS: Maintenance Philosophy Strategic Planning Worklist Preparations-Scope Freezing Turnaround Organization Structure Tendering Process & Post Turnaround Reviews Execution, Emergent work strategies and Post Turnaround Reviews CMMS Turnaround Optimization COST: 2500 TTD per participant	Mr. Kishore Jhagroo -CRE Senior Lecturer – UWI Coordinator of the MSc EAM Retired Maintenance Manager with 37 years of field experience.	4 th April, 2020	Sat 9am to 4pm Room 5 Block 6	Managers Engineers Technicians Planners Schedulers Reliability and Maintenance Personnel				