



THE UNIVERSITY OF THE WEST INDIES
St. Augustine

FACULTY OF ENGINEERING

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

YEAR 1 (SEMESTER II)
BOOKLIST 2016 / 2017

MENG 1001 - ENGINEERING THERMODYNAMICS I

Essential

MORAN, M.J.
SHAPIRO, H.N.

***FUNDAMENTALS OF ENGINEERING
THERMODYNAMICS***
John Wiley and Sons, Inc.

HAYWOOD, R.W.

THERMODYNAMIC TABLES IN SI (METRIC) UNITS
Cambridge University Press

MENG 1004 - ENGINEERING DYNAMICS

Essential

HIBBELER, R.

ENGINEERING MECHANICS DYNAMICS
12th Edition, SI Units. Pearson (Prentice Hall) 2010.
ISBN 0-981-06-8137-2

MENG 1005 - WORKSHOP TECHNOLOGY

Essential

CHAPMAN, W.A.J.

Workshop Technology Part 1, 5th Edition
Workshop Technology Part 2, 4th Edition

MENG 1009 - MACHINE DRAWING

Recommended

PLANCHARD, M.P. &
PLANCHARD, M.P.

ENGINEERING DESIGN WITH SOLIDWORKS 2011
SDC Publications, 2011

ESSENTIAL

CARPENTER & SANDERS

***STRATEGIC MANAGEMENT: A DYNAMIC PERSPECTIVE
CONCEPTS AND CASES, 7/e***
Veason, Prentice Hall, 2nd Edition

ZIMMERER, T.W.,
SCARBOROUGH, N.M

**ESSENTIALS OF ENTREPRENEURSHIP AND SMALL AND
BUSINESS MANAGEMENT, 5/e**
Pearson, Prentice Hall, 5th Edition, 2008
Upper Saddle River, New Jersey 07458
ISBN: 0-13-229439-3

MENG 1013 - COMMUNICATION SKILLS

Essential

SILYN-ROBERTS, Heather

**WRITING FOR SCIENCE AND ENGINEERING: PAPERS,
PRESENTATIONS AND REPORTS**

Butterworth-Heinemann, 2002

ISBN-10: 0750646365; ISBN-13: 978-0750646369

SILYN-ROBERTS, Heather

**PROFESSIONAL COMMUNICATIONS: A HANDBOOK FOR
CIVIL ENGINEERS**

The American Society for Civil Engineers,

Published 2004

ISBN-13: 978-0784407325; ISBN-10: 0-7844-0732-0

January 2017



THE UNIVERSITY OF THE WEST INDIES
St. Augustine

FACULTY OF ENGINEERING

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

YEAR 2 (SEMESTER II)
BOOKLIST 2016 / 2017

MENG 2003 - MECHANICAL VIBRATIONS

Essential

S. GRAHAM KELLY

**MECHANICAL VIBRATIONS:
THEORY & APPLICATIONS**
CENGAGE Learning, 2012
ISBN: 978-1-4390-6214-2

MENG 2008 - MANUFACTURING TECHNOLOGY

Highly Recommended

BLACK, J.T., &
KOHSER, R.A.

**DEGARMO'S MATERIALS AND PROCESSES
IN MANUFACTURING**
John Wiley & Sons Inc. 10th Edition or Latest

GROOVE, Mikell P.

FUNDAMENTALS OF MODERN MANUFACTURING
John Wiley & Sons Inc., 4th Edition or latest

MENG 2012 - HEAT TRANSFER

Essential

INCROPERA, F.P. &
DEWITT, D.P.

FUNDAMENTALS OF HEAT AND MASS TRANSFER
Wiley (Latest Edition)

MORAN, M.J. &
SHAPIRO, H.N.

FUNDAMENTALS OF ENGINEERING THERMODYNAMICS
Wiley (Latest Edition)

MENG 2013 - MACHINE DESIGN II

Essential

JUVINALL, R.C.,
MARCHEK, K.M.

FUNDAMENTALS OF MACHINE COMPONENT DESIGN
Wiley, 5th Edition, 2011

Highly Recommended

AVALLON, E.A. &
BAUMEISTER, T.

**STANDARD HANDBOOK FOR MECHANICAL
ENGINEERS, 9th Edition**
McGraw Hill

SHIGLEY, J.E.,
MISCHCKE, C.R.

**MECHANICAL ENGINEERING DESIGN
(ISE EDITION).** McGraw Hill, 5th Edition

MENG 2015 - CONTROL SYSTEMS TECHNOLOGY

Essential

OGATA, Katsuhiko

MODERN CONTROL ENGINEERING

Pearson, 4th Edition

Highly Recommended

DORF, Richard &
BISHOP Robert

MODERN CONTROL SYSTEMS

Pearson, 11th Edition

GOLNARAGHI, F &
KUO, B.C.

AUTOMATIC CONTROL SYSTEMS

Wiley & Sons Ltd., 9th Edition

January 2017.



THE UNIVERSITY OF THE WEST INDIES
St. Augustine

FACULTY OF ENGINEERING

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

YEAR 3 (SEMESTER II)
BOOKLIST 2016 / 2017

MENG 3001- ENGINEERING MANAGEMENT II

Essential

CARPENTER & SANDERS

***STRATEGIC MANAGEMENT: A DYNAMIC PERSPECTIVE
CONCEPTS AND CASES***
7th Edition

ZIMMERER, T.W., &
SCARBOROUGH, N.M.

***ESSENTIALS OF ENTREPRENEURSHIP
AND SMALL BUSINESS MANAGEMENT***
Pearson, Prentice Hall, 5th Edition, 2008
Upper Saddle River, New Jersey 07458

HUTT, Michael D &
SPEH, Thomas W.

BUSINESS MARKETING MANAGEMENT : B2B
South Western, 11th Edition
ISBN-10: 1-133-18956-3
ISBN-13: 978-1-133-18956-5

MENG 3011 - ADVANCED MECHANICS OF SOLIDS

Essential

THIRUVARUDCHELVAN, S.

ADVANCED MECHANICS OF MATERIALS
Faculty of Engineering, UWI Publications

HIGHLY RECOMMENDED

UGURAL, A.G. &
FENSTER, S.K.R

ADVANCED STRENGTH AND APPLIED ELASTICITY
Elsevier Publishers

MENG 3014 - COMPUTER AIDED DESIGN AND MANUFACTURE

Essential

CHANG, T.C.,
WYSK, R.A. &
WANG, H.

COMPUTER-AIDED MANUFACTURING
Prentice Hall, 2nd Edition
ISBN: 01375424X or
Prentice Hall, 3rd Edition
ISBN: 0131429191

Mc MOHAN, Chris &
BROWNE, Jimmie

**CAD-CAM
PRINCIPLES, PRACTICE AND MANUFACTURING
MANAGEMENT**

2nd Edition, Prentice Hall (1998)
ISBN: 9780201178197

MENG 3016 - MAINTENANCE & SAFETY ENGINEERING

ESSENTIAL

GULATI, Ramesh &
SMITH, R.

MAINTENANCE AND RELIABILITY BEST PRACTICES
Industrial Press Inc.

Highly Recommended

GOETSCH, D.

**OCCUPATIONAL SAFETY AND HEALTH FOR TECHNOLOGISTS,
ENGINEERS, AND MANAGERS**
ISBN: 0-13-924085, PH, 3rd Edition

DHILLON, B.S.

ENGINEERING MAINTENANCE
CRC Press, 2002

KELLY, A.

MAINTENANCE PLANNING AND CONTROL
Butterworth, 1984

MOBLEY, K.

AN INTRODUCTION TO PREDICTIVE MAINTENANCE
Butterworth-Heinmann

STEPHENS, M.P.

PRODUCTIVITY-BASED MAINTENANCE MANAGEMENT
Prentice Hall, 2004

MENG 3026 - RENEWABLE ENERGY

Essential

MORAN, Michael J.
SHAPIRO, Howard N.

**FUNDAMENTALS OF ENGINEERING
THERMODYNAMICS, ISE Ed.**

John Wiley and Sons (WIE) Publisher 1993 Paperback, UK

Highly Recommended

MITCHELL, John

ENERGY ENGINEERING
John Wiley and Sons

MENG 3028 - POWER PLANT ENGINEERING II

Essential

GANAPATHY, V.

**Industrial Boliers and Heat Recovery Steam Generators:
Design, Applications and Calculations**
Marcel Dekker Inc.

SARAVANAMUTTO, H.I.H

GAS TURBINE THEORY
Prentice Hall

MENG 3029 - ENVIRONMENTAL CONTROL ENGINEERING II

Essential

SAUER, H.J. &
WILLIAM, J.

***PRINCIPLES OF HEATING, VENTILATING
AND AIR-CONDITIONING***
ASHRAE, 2009, 6th Edition

Highly Recommended

ASHRAE

***HANDBOOK OF FUNDAMENTALS
SI EDITION***

CARRIER AIR-
CONDITIONING CO.

***HANDBOOK OF AIR-CONDITIONING
SYSTEM DESIGN***
McGraw Hill

JEFFREY D. SPITTLER

LOAD CALCULATION APPLICATIONS MANUAL
2nd Edition - SI

Recommended

HARRIS, N.C. &
CONDE, D.F.

MODERN AIR-CONDITIONING PRACTICE
McGraw Hill

MINOR IN BIOSYSTEMS

MENG 3002 - POST HARVEST TECHNOLOGY

Essential

KADER, Abel A.,
KASMIRE, Robert F.,
MITCHELL, F. Gordon,
REID, Michael S.,
SOMME, Noel F.,
THOMPSON, James F.

***POSTHARVEST TECHNOLOGY OF
HORTICULTURAL CROPS***

MENG 3007 - DRAINAGE & IRRIGATION ENGINEERING

Essential

JAMES, L.G.

PRINCIPLES OF FARM IRRIGATION SYSTEMS DESIGN
John Wiley & Sons (1988), New York

MAYS, L.W.

WATER RESOURCES ENGINEERING (2001)4-
1st Edition, John Wiley & Sons, New York

MENG 3008 - FIELD MACHINERY & EQUIPMENT

Essential

SRIVASTAVA, A.K.
GOERING, C.E.
ROHRBACH, R.P.

***ENGINEERING PRINCIPLES OF
AGRICULTURAL MACHINES***
Published by the American Society of Agricultural
Engineers (ASAE), 2950 Niles Road, St. Joseph
Michigan 49085 – 9659, USA

MENG 3027- TRACTION & POWER HYDRAULICS

Essential

Eaton Hydraulics Training

MOBILE HYDRAULICS MANUAL
2nd Edition
Eaton Hydraulics, May 2006.
ISBN 10:0963416251

MENG 3030 BASIC ENGINEERING INFRASTRUCTURE

Essential

LIDLEY, J.A. &
WHITAKER, J.H.

***AGRICULTURAL BUILDINGS AND
STRUCTURES (Revised Edition)***
ASAE Publication

January 2017.