



Department of Mechanical Engineering
Automation in Production
VIII Sem.
Sub – Automation in Production

Course Outcome

1. To understand the basics of industrial automation.
2. To work on part programming languages used in CNC.
3. To develop programs for simple robot applications.
4. To design automated storage and retrieval systems
5. To implement GT, CAPP and FMS concepts in manufacturing.
6. To use various quality inspection techniques including machine vision and CMM.

List of Experiments

Expt. No	Name of the experiment	Course Outcome mapping
1	Case study on automated system of any industry.	CO1, CO2
2	Practice programming on manual part program.	CO2
3	Practice programming on APT.	CO2
4	Demonstration on robot.	CO1, CO2, CO3
5	Performance on robot.	CO1, CO2, CO3
6	Demonstration on CNC lathe.	CO1, CO2
7	Performance on CNC lathe.	CO1, CO2
8	Performance and simulation with CNC lathe software.	CO1, CO2
9	Demonstration on CNC milling.	CO1, CO2
10	Performance on CNC milling.	CO1, CO2
11	Performance and simulation with CNC milling software.	CO1, CO2
12	Case study on computer aided process planning	CO1, CO4
13	Case study on part coding and group technology	CO1, CO5
14	Case study on computer aided quality control	CO1, CO4, CO6
15	Case study on flexible manufacturing system	CO2, CO5
16	Open Ended Experiment on FFT Analyzer	

Ghrce Lab Manual

Rufus Phillips Williams



Ghrce Lab Manual:

Laboratory and Field Manual on Irrigation Engineering R.J. Patel, 2019-06-10 The irrigation water is considered as the essential input for crop production. Over exploitation of natural water resources has caused a menace for the future human generations. The depletion of underground water table in high productivity areas and under utilization of the water resources in rain fed areas of the country, poor irrigation efficiency and high seepage losses from conveyance system, poor land development and mismanagement of the irrigation water resources has acquired alarming proportions. As the share of water for agriculture in future is going to reduce, there will be tremendous pressure to produce more per drop of water in order to meet the food and other requirements of burgeoning population of the country. The existing irrigation water resources are not utilized judiciously and their mismanagement has led to problems like low production efficiency, salinization, water logging and degradation of land. To manage these problems and increase the production efficiency of irrigation, it is pertinent to adopt judicious methods of irrigation water use by efficient on-farm irrigation management based on scientific approach. Therefore, a comprehensive knowledge of available soil moisture and its constants, scheduling and quality of irrigation water and proper drainage techniques is crucial. This manual on irrigation engineering is an attempt to fulfil this urgent need as it covers all major aspects of irrigation water management. Although the manual is meant primarily for the students of agricultural universities, yet it will provide valuable basic information and guide to the scientific community and field functionaries.

General Chemistry Laboratory Manual Petra Van-Koppen, 2003 Presents a lab manual for the two semester General Chemistry course. This book contains experiments that cover the commonly assigned experiments found in a typical two semester course. *Lab Manual* ANONIMO, 1999-06-01

General Chemistry Lab Manual Condon, 1999-07-01

General Chemistry Laboratory, [Ck-eku-107](#) Ninette Lilienthal, Peter Jeschofnig, 2009-03

[\(WCS\)A&P Lab Manual for Medaille College](#) Lynn Kozinski, 2007-08

[General Chemistry II Laboratory Manual](#) Barry Rugg, Jerry Abrams, Binyomin Abrams, 2009-06-25

[Laboratory Manual for General, Organic, and Biological Chemistry](#) Mary Beth Neely, Cindy Applegate, Michael Wayne Sakuta, 2016-02-09 The Laboratory Manual for General Organic and Biological Chemistry by Applegate Neely and Sakuta was authored to be the most current lab manual available for the GOB market incorporating the most modern instrumentation and techniques. Illustrations and chemical structures were developed by the authors to conform to the most recent IUPAC conventions. A problem solving methodology is also utilized throughout the laboratory exercises. The Laboratory Manual for General Organic and Biological Chemistry by Applegate Neely and Sakuta is also designed with flexibility in mind to meet the differing lengths of GOB courses and variety of instrumentation available in GOB labs. Helpful instructor materials are also available on this companion website including answers, solution recipes, best practices with common student issues and TA advice, sample syllabi and a calculation sheet for the Density lab.

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Manual for Principles of General Chemistry Jo Allan Beran, 2010-11 **Laboratory Manual of General Chemistry**
Rufus Phillips Williams, 1888 **Lab Manual - Human Anatomy and Physiology II Laboratory Manual, Seventh**
Edition Dawn F. Roberts, 2022 *Ck-eku-102* Peter Jeschofnig, Paul Vorndam, Eastern Kentucky University, 2010-10

Laboratory Manual for Principles of General Chemistry Jo Allan Beran, 2011-06-21 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures **Lab Manual (stand-alone)** Randy L. Ratliff, 2001-02-07 **Lab Manual Course 1** ,

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