



**UTTARAKHAND BOARD OF TECHNICAL EDUCATION**  
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**STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME**



# Mechanical Engineering

SEMESTER - IV

Subject Code	Subject	O	T	Internal								Total Marks	Credit Point
				Internal				External					
				Theory		Practical		Theory		Practical			
				Max Marks	Max Marks	Max Marks	Hrs.	Max Marks	Hrs.				
4006	Strength of Materials*	4	-	3	7	30	20	80	2.5	25	3.0	155	4
4004	Metrology, Instrumentation & Control *	4	-	4	8	30	20	80	2.5	25	3.0	155	4
4005	Production Technology*	4	-	6	10	30	20	80	2.5	45	3.0	175	6
4003	Hydraulics and Hydraulic Machines**	4	-	3	7	30	20	80	2.5	25	3.0	155	5
4001	Applied Thermal Engineering**	4	-	2	6	30	20	80	2.5	25	3.0	155	5
4002	Automobile Engineering**	4	-	2	6	30	20	80	2.5	25	3.0	155	4
4052	Industrial exposure (Assessment at Institute Level)	-	-	-	-	-	25	-	-	-	-	25	1

**Syllabus** 

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**4<sup>th</sup> Semester**

# Mechanical Engineering 4th Sem Syllabus

**Louisiana State University and  
Agricultural and Mechanical College**



## **Mechanical Engineering 4th Sem Syllabus:**

Work Organization and Methods Engineering for Productivity D.R. Kiran, 2020-02-12 Work Organization and Methods Engineering for Productivity provides an introduction to and practical advice on assessing methods of working to achieve maximum output and efficiency The main focus of the book is on the work study which helps to increase the productivity of men machines and materials We are currently seeing a lot of disruptive advancement in industrial operations caused by technologies including artificial intelligence and IoT Against this technological backdrop and with ever increasing focus on value the fundamental understanding of how to analyze and organize the workplace for productivity is more important than ever Case studies and illustrations throughout make this book a much have for managers with responsibility for production and planning in industry Helps the reader understand the fundamental factors affecting productivity along with their relevance to work organization Includes valuable industry case studies from sectors including manufacturing textile production and sea port operations Includes several formats and charts that are important in the recording of data for practical work studies Education and Training in Geo-Engineering Sciences Iacint Manoliu, Nicoleta

Radulescu, 2008-05-20 Covering a broad range of topics curricular matters in geo engineering education teaching learning and assessment in geo engineering education challenges in geotechnical engineering education issues in education and training in Engineering Geology the link university professional world in geo engineering this book will be invaluable to university teachers academics and professionals involved in education and training in geo engineering sciences

*Mechanical Vibrations, 2nd Edition* Mehta J.S. and Kailey A.S., Written specifically for the students of Mechanical Engineering Mechanical Vibrations is a succinctly written textbook Without being verbose the textbook delves into all concepts related to the subject and deals with them in a laconic manner Concepts such as Freedom Systems Vibration Measurement and Transient Vibrations have been treated well for the student to get profounder knowledge in the subject

*Control Engineering in Undergraduate Courses*, 1976 *Announcement of Courses* Stanford University, 1911

Bulletin Stanford University, 1911

**Official Register of the Louisiana State University and Agricultural and**

**Mechanical College** Louisiana State University and Agricultural and Mechanical College, 1949 *Which Degree?*, 1981

**Readers' Guide to Periodical Literature**, 1916 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books **Social Sciences and Humanities Index**, 1916 Frontiers in Education

1995 Dan Budny, 1995 **The Sanitary Record and Journal of Municipal Engineering**, 1912 **Resources in**

**Education**, 2000-04 *Bulletin* International Institute of Refrigeration, 1966 *Graduate Studies*, 1993 *International Index to Periodicals*, 1915 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts *Who's who in America*, 1930 **Numerical Methods & Optimization** Anup Goel, 2021-01-01

Numerical method is a mathematical tool designed to solve numerical problems. The implementation of a numerical method with an appropriate convergence check in a programming language is called a numerical algorithm. Numerical analysis is the study of algorithms that use numerical approximation for the problems of mathematical analysis. Numerical analysis naturally finds application in all fields of engineering and the physical sciences. Numerical methods are used to approach the solution of the problem and the use of computer improves the accuracy of the solution and working speed. Optimization is the process of finding the conditions that give the maximum or minimum value of a function. For optimization purpose linear programming technique helps the management in decision making process. This technique is used in almost every functional area of business. This book includes flowcharts and programs for various numerical methods by using MATLAB language. My hope is that this book through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

#### **Who's who Among North American Authors** Alberta

Lawrence, 1927. Covering the United States and Canada with their possessions and neighbors and containing the biographical and literary data of living authors whose birth or activities connect them with the continent of North America with a press section devoted to journalists and magazine writers varies slightly.

**Electron Microscopes, Spectroscopy and Their Applications** Guillermo Huerta Cuellar, 2024-05-22. This book explores the use of electronic microscopes and spectroscopic techniques to solve different problems. Delve into the intricate details of these powerful tools as they reveal some of the hidden mysteries of the microscopic realm. From exploring the inner workings of cells to analyzing the composition of materials at the atomic level, this book offers an engaging and motivating journey into the realm of cutting edge scientific exploration in electron microscopy and spectroscopy techniques with emerging trends in the field. Whether you are an experienced researcher or a curious enthusiast, this book will motivate your scientific thinking to discover and expand your understanding of the microscopic world, inviting you to continue working in these areas to obtain more interesting results.

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