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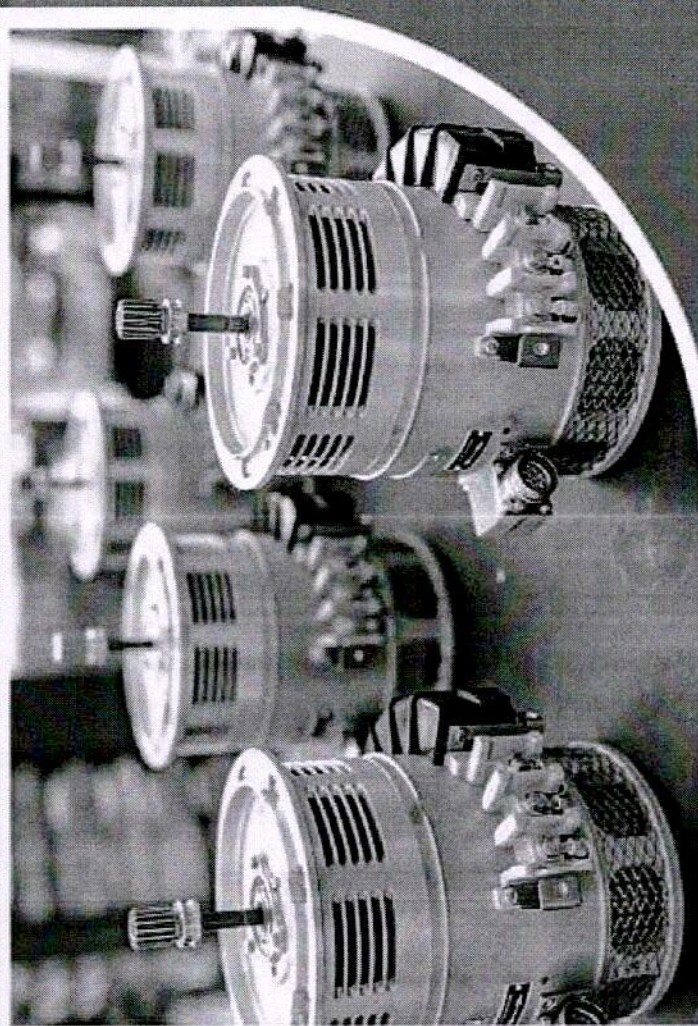


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ELEMENTS OF ELECTRICAL MACHINES



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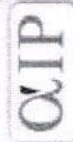
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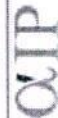
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**ELEMENTS OF HEAT POWER
ENGINEERING**

FIRST EDITION

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HEAT POWER ENGINEERING

DETAILED SYLLABUS

Unit	Name of the Topic	Page No
I	<p>BASICS OF THERMODYNAMICS AND THERMODYNAMIC PROCESSES OF PERFECT GASES</p> <p>Introduction:- Definitions and units of mass, weight, volume, density, specific weight, specific gravity and specific volume – pressure – units of pressure – absolute temperature – S.T.P and N.T.P conditions – heat - specific heat capacity at constant volume and at constant pressure – work – power – energy – types – law of conservation of energy – thermodynamic system – types – thermodynamic equilibrium - properties of systems – intensive and extensive properties – State of System - process – cycle – point and path functions - zeroth, first and second laws of thermodynamics.</p> <p>Perfect gases: - laws of perfect gases – Boyle's, Charle's, Joule's, Regnault's and Avogadro's laws – General Gas Equation - Characteristic gas equation – relation between specific heats and gas constant – Universal gas constant – Change in Internal Energy- enthalpy – change in enthalpy – entropy</p> <p>Thermodynamic processes:- Constant volume, Constant pressure, Constant temp.(isothermal), Isentropic (reversible adiabatic) and, Polytropic Processes – p-V and T-s diagrams, work done, change in internal energy, heat transfer, change in enthalpy, change in entropy for above processes – Simple problems – hyperbolic, Free expansion and throttling processes(Description only) .</p> <p>Steady flow system: – control volume – steady flow energy equation – assumptions – Engineering applications</p>	1 - 55
II	<p>THERMODYNAMIC AIR CYCLES AND FUELS & COMBUSTION</p> <p>Air cycles: – air standard efficiency – reversible and irreversible processes – assumptions in deriving air standard efficiency – Carnot cycle – Otto cycle – Diesel cycle - Comparison of ideal and actual p-v diagrams of Otto and Diesel cycles – Simple problems</p> <p>Fuels & Combustion: Classifications of fuels - merits and demerits – requirements of a good fuel – Octane number – detonation - Pre-ignition – Cetane number – Diesel knock – comparison of detonation and diesel knock - fuel additives – Stages of Combustion – Delay period – Variables affecting delay period – Methods of generating air swirl in diesel engine combustion chambers – Types of combustion chambers – combustion equations – stoichiometric air required for complete combustion of fuels – excess air – products of combustion – analysis</p> <p>of exhaust gases - calorific value of fuels.</p>	56 - 98


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<p>99 - 135</p>	<p>AIR COMPRESSORS AND GAS TURBINES Uses of compressed air - classifications of Air compressor - reciprocating compressor - single stage reciprocating compressor - compression processes - clearance volume and its effects - volumetric efficiency - multi stage compression - merits and demerits - Two stage compressor with imperfect cooling- with perfect inter cooling - rotary compressors - Roots blower - vane blowers - centrifugal and axial flow air compressors - simple problems. Gas turbines - uses - classifications - merits and demerits constant pressure combustion gas turbine - gas turbine with intercooler, reheater, regenerator - effects - closed cycle gas turbines - merits and demerits - jet propulsion - turbojet engines - turbo propeller engines - ramjet - Working principle - merits and demerits -Rocket engines - applications of rockets</p>	<p>III</p>
<p>136 - 178</p>	<p>FORMATION & PROPERTIES OF STEAM AND STEAM CALORIMETERS Steam - Properties - formation of steam - saturation temperature - enthalpy of water - enthalpy of evaporation - conditions of steam - dryness fraction - enthalpy of wet, dry and superheated steam - advantages of superheated steam - p-v diagram - T-H diagram - H-S diagram - P-H diagram - critical conditions of water - specific volume of water and steam - density of steam - external work done during evaporation - internal latent heat - internal energy of steam - entropy of water and steam - steam tables - Mollier chart. Expansion process of Steam: Constant Volume process - Constant Pressure Process - Constant Temperature process - Hyperbolic Process - Isentropic process - Polytronic process - Throttling process. - Simple problems. Steam Calorimeter: Determination of dryness fraction of steam - bucket calorimeter - combined separating and throttling calorimeters</p>	<p>IV</p>
<p>179-227</p>	<p>STEAM BOILERS AND PERFORMANCE OF BOILERS Steam Boilers: Introduction - Classification of boilers - comparison of fire tube and water tube boilers - high pressure boilers - advantages of high pressure boilers - Lamont and BHEL high pressure boilers - boiler mountings and accessories - function - construction and working - comparison of mountings and accessories - feed water treatment - internal and external treatments - starting boiler from cold condition - safety precautions in boiler operation - causes of Indian boiler act. Performance of boilers: Evaporation rate - actual, equivalent and factor of evaporation - boiler efficiency - factors influencing boiler efficiency of economizer and super heater - boiler problems - Simple problems in a boiler- heat balance sheet - Simple problems</p>	<p>V</p>

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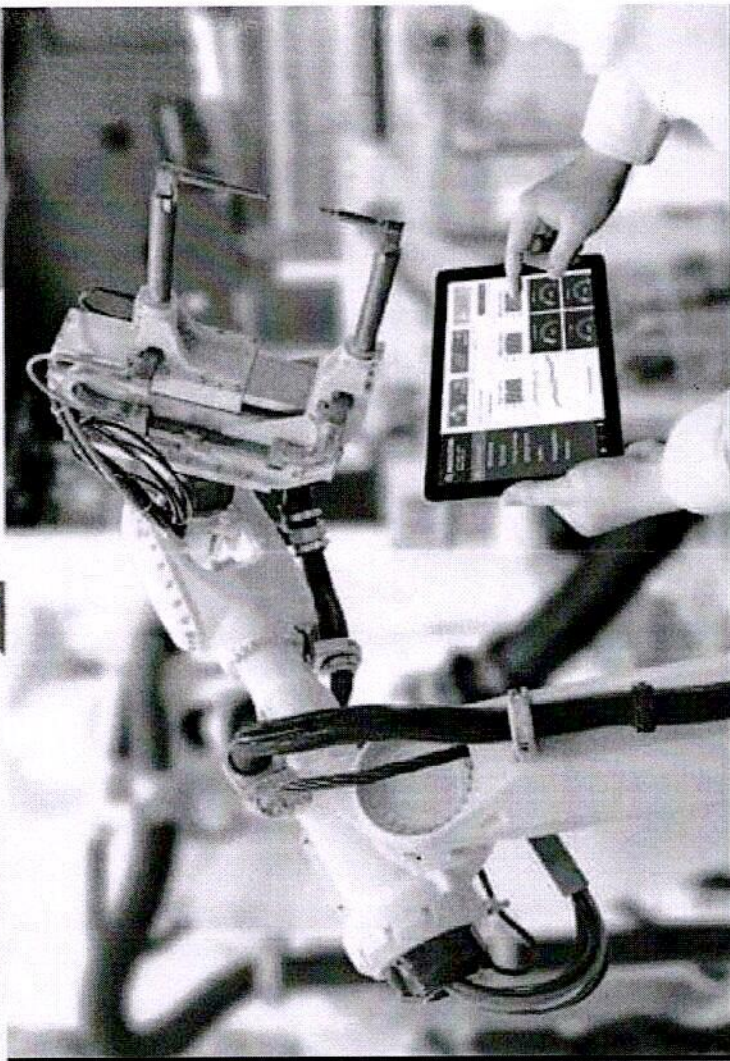
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MODERN PRODUCTION AND OPERATION MANAGEMENT

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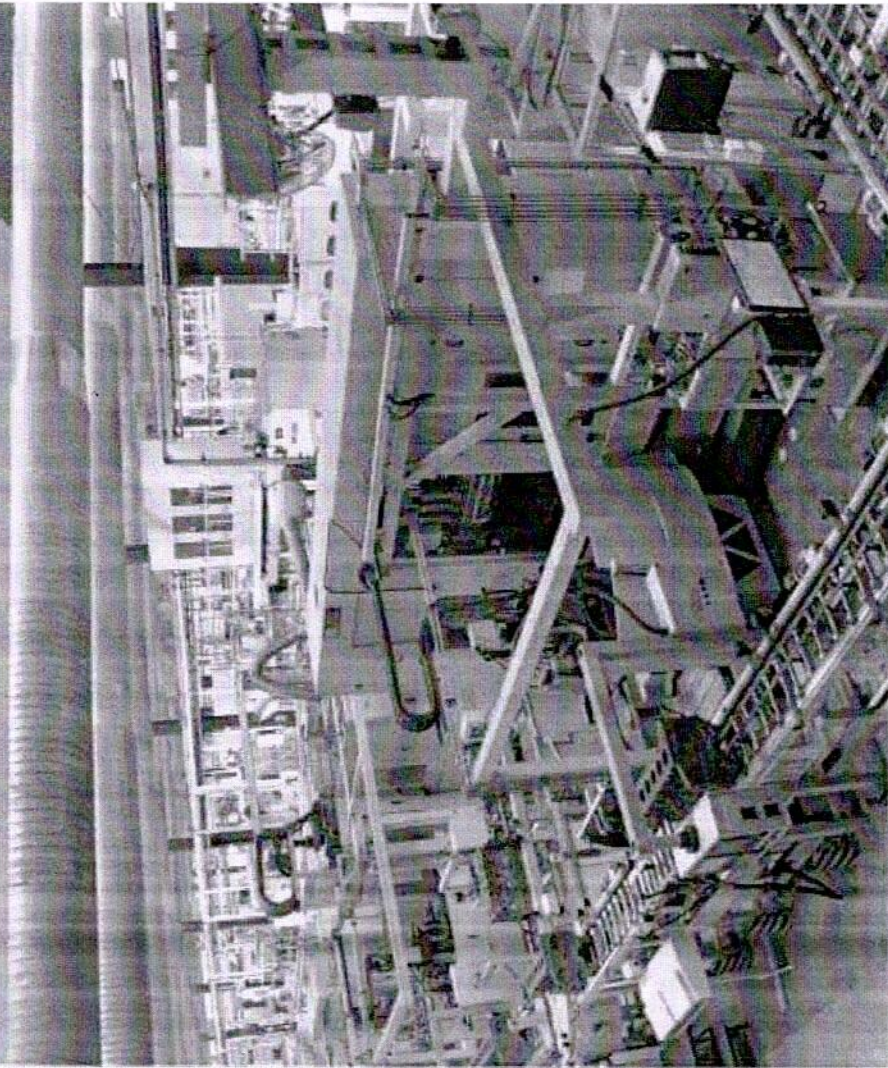
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SYLLABUS

1. MANUFACTURING OF PLASTIC COMPONENTS

Plastic Components: Types of plastics - Engineering plastics – thermosets – composite - structural foam, elastomers - polymer alloys and liquid crystal polymers. Factors Influencing the Selection of Plastics - Mechanical properties – degradation - wear resistance - frictional properties - special properties –processing – cost. Processing of Plastics: Extrusion-general features of single screw extrusion -twin screw extruders. Injection moulding types: Plunger type - Reciprocating screw injection - details of injection mould - structural foam injection mould - sandwich moulding - gas injection moulding - injection moulding of thermosetting materials - calendaring and rotational moulding. Design consideration for plastic components. Composite manufacturing: Introduction – characteristics of composite manufacturing - constituents – Glass fibers manufacturing process – hand laminating process – autoclave processing – filament winding – pultrusion process – liquid composite process – working principles by schematic diagram only – advantages – disadvantages.

2. RECIPROCATING MACHINES

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3. MILLING MACHINES AND GEAR GENERATING PROCESSES

Milling Machines: Types - column and knee type – plain - universal milling machine - vertical milling machine - principles of operation - specification of milling machines - work holding devices - tool holding devices - arbor - stub arbor - spring collet – adapter. Milling cutters: cylindrical milling cutter - slitting cutter -side milling cutter - angle milling cutter - T-

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slot milling cutter - woodruff milling cutter - fly cutter - nomenclature of cylindrical milling cutter.

Milling operations: straddle milling - gang milling - vertical milling attachment. Indexing plate – differential indexing - simple indexing – compound indexing – simple problems. Generating Process: gear shaper - gear hobbing - principle of operation only. Gear finishing processes: burnishing – shaving - grinding and lapping - gear materials.


4. ABRASIVE PROCESS AND NON- CONVENTIONAL MACHINING PROCESSES

Abrasive Process: Types and classification – specifications - rough grinding – pedestal grinders - portable grinders - belt grinders - precision grinding - cylindrical grinder - centerless grinders – surface grinder - tool and cutter grinder - planetary grinders - principles of operations - grinding wheels – abrasives - natural and artificial diamond wheels - types of bonds - grit, grade and structure of wheels - wheel shapes and sizes - standard marking systems of grinding wheels - selection of grinding wheel - mounting of grinding wheels - Dressing and Truing of wheels - Balancing of grinding wheels.


Non-Conventional Machining Processes: Construction, working and applications of Ultrasonic machining - chemical machining - electro chemical grinding - electrical discharge machining - plasma arc machining - LASER machining - Advantages – Disadvantages.


5. CNC MACHINE AND ITS COMPONENTS

CNC Machines: Numerical control – definition – working principle of a CNC system – Features of CNC machines - advantage of CNC machines – difference between NC and CNC – Construction and working principle of turning centre – Construction and working principle of machining centre – machine axes conventions turning centre and machining centre – Coordinate measuring machine – construction and working principle. Components of CNC machine: Slide ways – requirement – types – friction slide ways and antifriction slide ways - linear motion bearings – recirculation ball screw – ATC – tool magazine – feedback devices – linear and rotary transducers – Encoders - in process probing - tool material – tool inserts.


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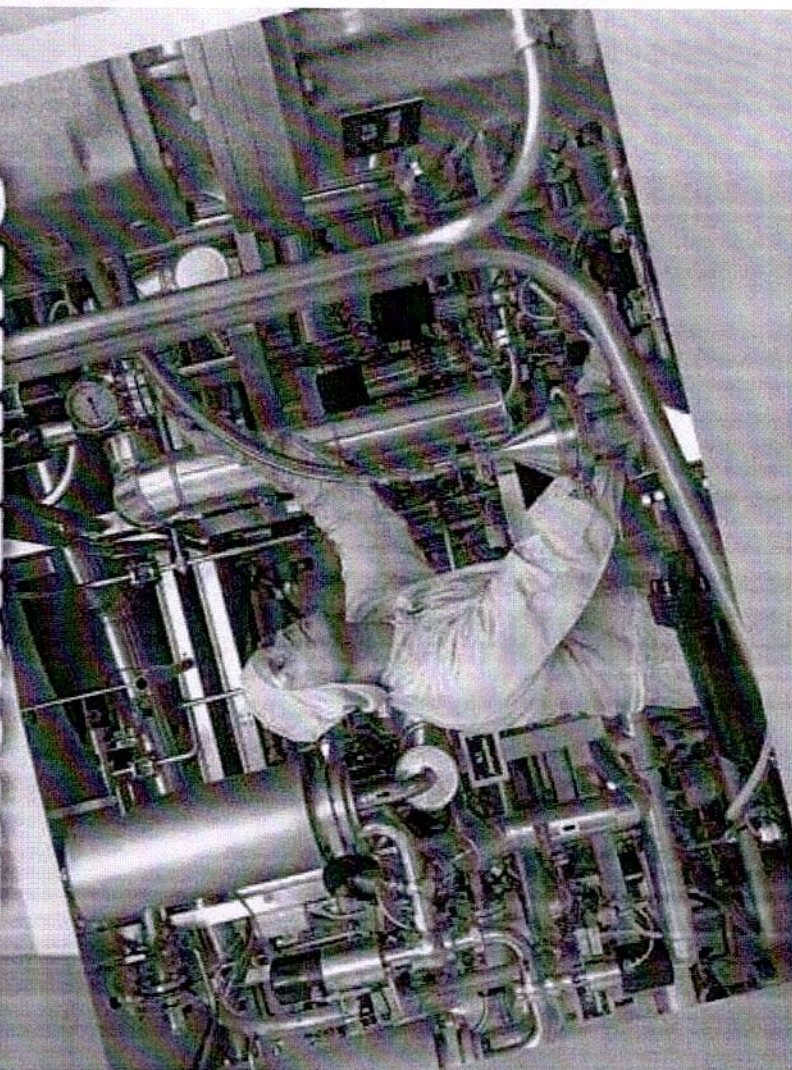
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HEAT POWER ENGINEERING



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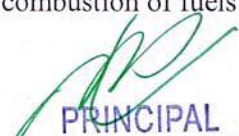
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HEAT POWER ENGINEERING

DETAILED SYLLABUS

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III	<p>AIR COMPRESSORS AND GAS TURBINES</p> <p>Air Compressors:- Uses of compressed air – classifications of Air compressor – reciprocating compressor - single stage reciprocating compressor – compression processes – clearance volume and its effects – volumetric efficiency – multi stage compression – merits and demerits – Two stage compressor with imperfect cooling- with perfect inter cooling – rotary compressors – Roots blower - vane blowers – centrifugal and axial flow air compressors – simple problems.</p> <p>Gas turbines – uses - classifications – merits and demerits constant pressure combustion gas turbine – gas turbine with intercooler, reheater, regenerator - effects – closed cycle gas turbines - merits and demerits – jet propulsion - turbojet engines – turbo propeller engines – ramjet – Working principle - merits and demerits – Rocket engines – applications of rockets</p>	99 - 135
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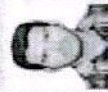
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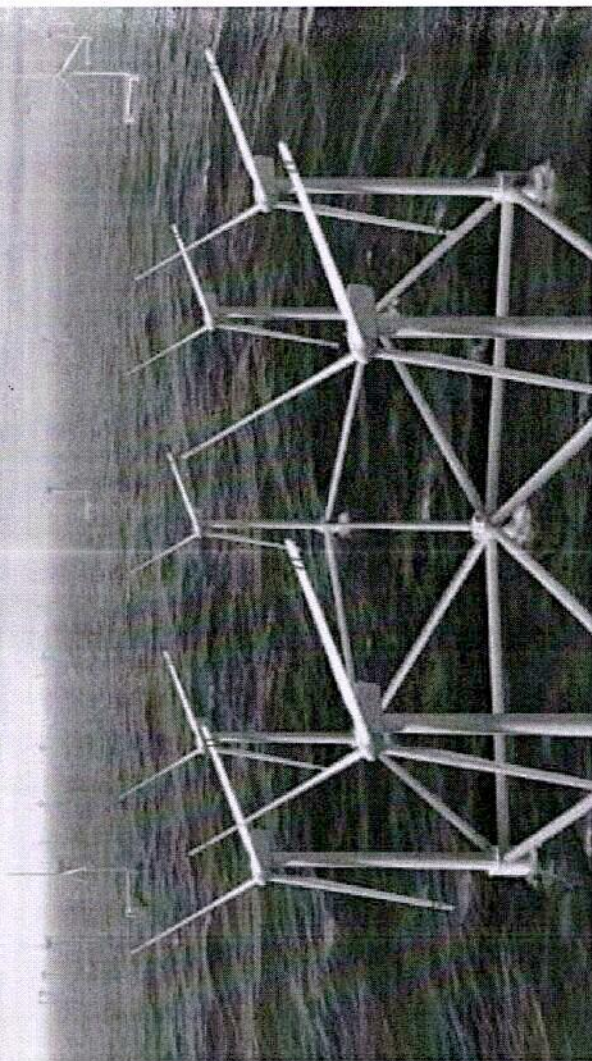
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APPLIED NUMERICAL METHODS FOR MECHANICAL ENGINEER

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ABSTRACT

Risk management is the identification, evaluation, and prioritization of risks (defined in ISO 31000 as the effect of uncertainty on objectives) followed by coordinated and economical application of resources to minimize, monitor, and control the probability or impact of unfortunate events or to maximize the realization of opportunities.

Risks can come from various sources including uncertainty in international markets, threats from project failures (at any phase in design, development, production, or sustaining of life-cycles), legal liabilities, credit risk, accidents, natural causes and disasters, deliberate attack from an adversary, or events of uncertain or unpredictable root-cause.

There are two types of events i.e. negative events can be classified as risks while positive events are classified as opportunities. Risk management standards have been developed by various institutions, including the Project Management Institute, the National Institute of Standards and Technology, actuarial societies, and ISO standards. Methods, definitions and goals vary widely according to whether the risk management method is in the context of project management, security, engineering, industrial processes, financial portfolios, actuarial assessments, or public health and safety. Certain risk management standards have been criticized for having no measurable improvement on risk, whereas the confidence in estimates and decisions seems to increase

Strategies to threats (uncertainties with negative R.R. District-501 505. consequences) typically include avoiding the threat, reducing the negative effect or probability of the threat, transferring all or part of the threat to another party, and even retaining some or all of the potential or actual consequences of a particular threat. The opposite of these strategies can be used to respond to opportunities (uncertain future states with benefits).


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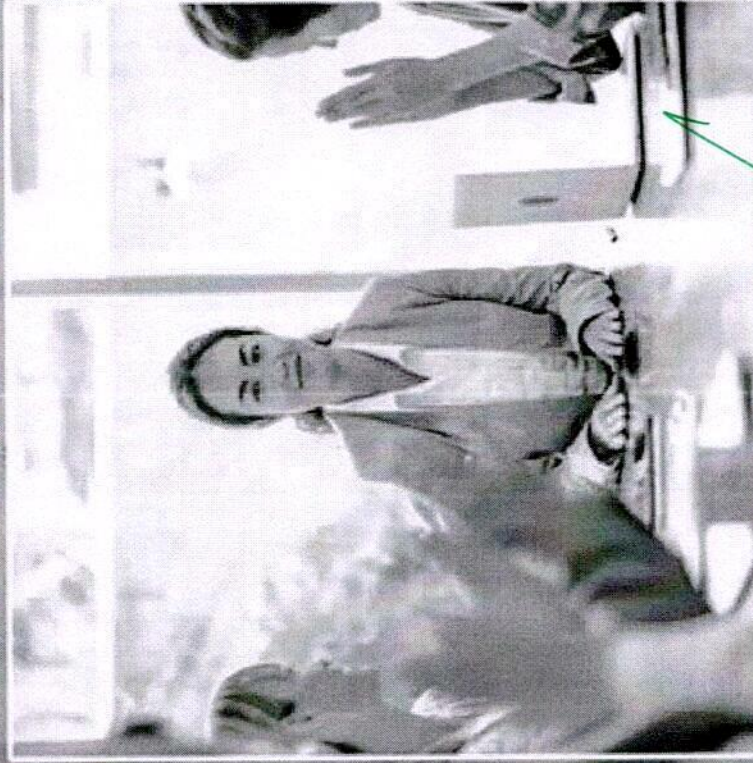
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SYLLABUS

Module-I	GENERAL INTRODUCTION AND LISTENING SKILL	Introduction to communication skills; Communication process; Elements of communication; Soft skills vs. hard skills; Importance of soft skills for engineers; Listening skills; Significance; Stages of listening; Barriers and effectiveness of listening; Listening comprehension.
Module-II	SPEAKING SKILL	Significance; Essentials; Barriers and effectiveness of speaking; Verbal and non-verbal communication; Generating talks based on visual prompts; Public speaking; Addressing a small group or a large formal gathering; Oral presentation; Power point presentation.
Module-III	VOCABULARY AND GRAMMAR	The concept of Word Formation; Root words from foreign languages and their use in English; Acquaintance with prefixes and suffixes from foreign languages in English to form derivatives; Synonyms; Antonyms; Standard abbreviations; Idioms and phrases; One word substitutes Sentence structure; Uses of phrases and clauses; Punctuation; Subject verb agreement; Modifiers; Articles; Prepositions.
Module-IV	READING SKILL	Significance; Techniques of reading; Skimming-Reading for the gist of a text; Scanning - Reading for specific information; Intensive reading; Extensive reading; Reading comprehension; Reading for information transfer; Text to diagram, Diagram to text.
Module-V	WRITING SKILL	Significance; Effectiveness of writing; Organizing principles of Paragraphs in documents; Writing Introduction and conclusion; Techniques for writing precisely; Letter writing; Formal and Informal letter writing; E-mail writing; Report Writing.
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ABSTRACT

The human resources audit enables to investigate the work of the human resources department and its sports to determine its effectiveness. It additionally helps to identify gaps, omissions, shortcomings in the implementation of guidelines, methods, practices, rules and discover areas in which non-compliance or poor implementation takes place within the business enterprise and the hobby. The examine design gives a blueprint for statistics series and analysis. It includes a study plan. The type of research is descriptive-inferential studies. The audit itself is a diagnostic device and not a prescription. It will assist you understand what you are lacking or what you need to improve, but you cannot inform what you want to do to restore those issues. The audit itself is a diagnostic tool and now not a normative tool. This company will help perceive what is lacking or needs development, however can't tell what wishes to be finished to cope with those problems. This is specifically useful while an enterprise wants to act on outcomes and expand its HR capabilities to a level where it can fully apprehend the enterprise's challenge and dreams. A complete human assets audit covers all regions of human resources control, including recruitment practices, training and improvement, compensation and advantages, union members of the family, fitness, protection and protection. Security, various personnel guidelines and practices, social safety and strategic personnel control. Constitutions, personal advice. ABC India Limited is a totally huge scale working organization, the current authorities position is strong. The organization can also meet the instantaneous wishes of employees. The employer constantly performs all of the functions of the management employer, but also has a few shortcomings that essentially want to be removed from the agency. Thus, from all of the evaluation of the characteristics, it may be concluded that the organization does a very good activity of listening to human assets.


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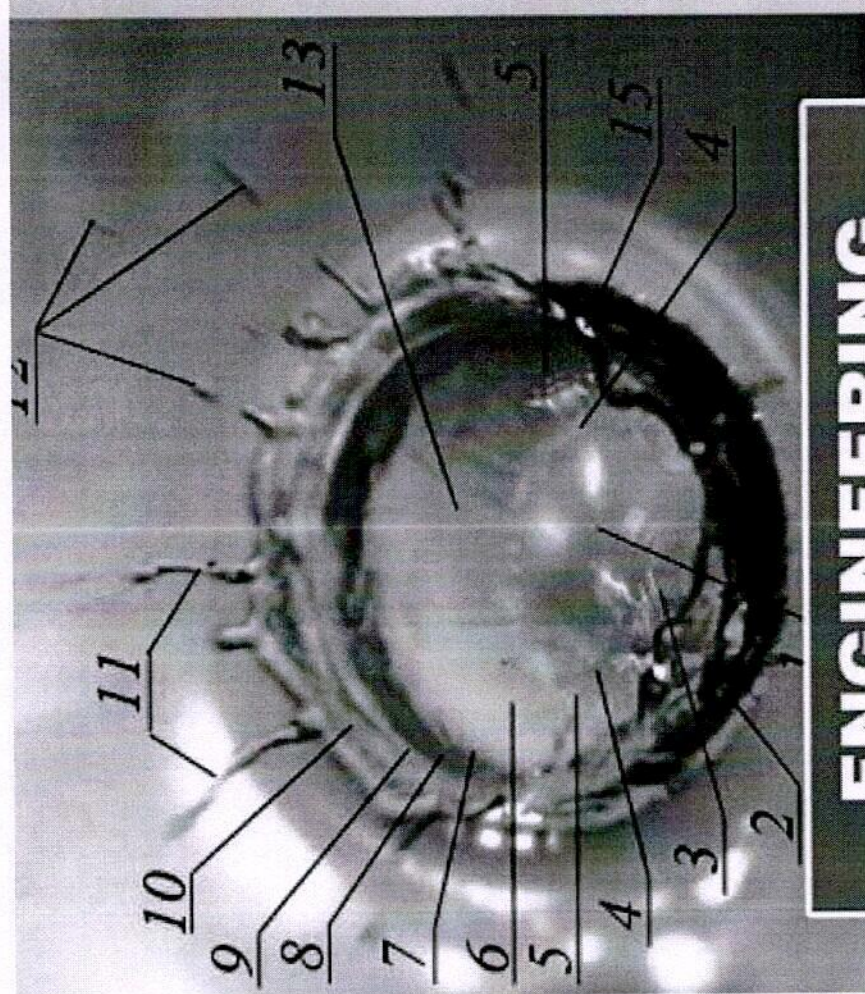
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ENGINEERING MATHEMATICS



ENGINEERING MATHEMATICS

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ABSTRACT

Accounts Receivable is a transactional account that's the account of a consumer who owes money to someone, enterprise or government for goods and offerings to clients. In maximum change institutions, that is usually achieved by sending an invoice and an bill or an electronic mail to the patron, who in turn must pay it within a positive time period, during the period of credit assessment, or referred to as commission. The name "bills receivable" is described as "a debt owed to the customer by the commercial enterprise from the sale of products/offers" purchased day by day. Accounts receivable are a large part of a robust modern-day asset. Accounts receivable can seek advice from accounts receivable, exchange lenders or notes receivable.

When the enterprise offers the goods and does not acquire money immediately. organization has given the client the agree with evaluation. So, accounts receivable/payable decide what the organization has to pay in the near destiny. It is therefore appropriate that the maximum ignorant customers, the corporation affords the customer with loose financing to entice him to buy the business enterprise's products/offers.

He believes that marketing is an vital mechanism this is the gateway to the motion of products thru the stages of production and distribution to customers. The organization offers an exchange mortgage to guard its sales from competition and permit customers to purchase its merchandise on fair and competitive phrases. When the Company sells its services or products and does not longer acquire instant price, the Company is otherwise considered to have an extended credit rating.


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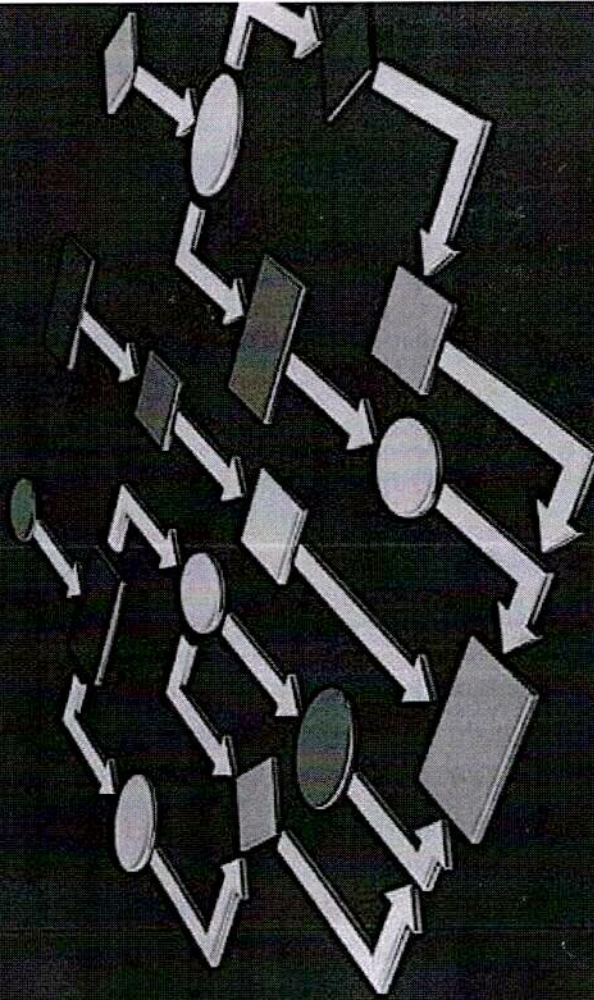
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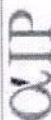
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FUNDAMENTALS OF PROBABILITY AND QUEUEING THEORY



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PREFACE

The book starts explaining the fundamentals of random variables and statistical averages. The backbone of this work is the collection of examples and exercises in Chapters 2 and 3. It is our hope that all mathematical results and tools required to solve the exercises are contained in Chapters 2 and 3. The manuscript was never intended to provide complete mathematical proofs of all the main results since these may be found elsewhere in the literature. Further, inclusion of (even more) long and technical proofs would remove focus from the main goal which is to learn how to solve problems. However, any lecturer using these lecture notes should spend part of the lectures on (sketches of) proofs in order to illustrate how to work with Markov chains in a formally correct way. We advise students to postpone these exercises until they feel familiar with the exercises in Chapters 2 and 3. This book provides the fundamental concepts and applications of probability and queueing theory. Beginning with a discussion of probability theory, the text analyses in detail the random variables, standard distributions, Markovian and non-Markovian queueing models with finite and infinite capacity, and queue networks.

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ABSTRACT

This article discusses the practical issues involved in applying a disciplined risk management methodology to commodity futures trading. Accordingly, the paper shows how to apply methodologies derived from both conventional asset management and hedge fund management to futures trading. The article also discusses some of the risk management issues that are unique to leveraged futures trading.

Many developing countries depend to a large extent on commodities for their exports and government revenues. According to statistics from UNCTAD, in 1995 fifty-seven developing countries depended for over 50% of their exports on three commodities. Commodities, fuels, grains and oilseeds, are also very important imports for several developing countries. Commodity prices are notoriously volatile which is a major source of instability and uncertainty for commodity-dependent developing countries.

Commodity price volatility affects governments, producers (farmers), traders, processors, and local financial institutions financing commodities in these countries. Studies have also found that commodity price instability has a negative impact on economic growth, income distribution and poverty alleviation. In the past, there have been several attempts to deal with commodity price volatility. A number and variety of international and national institutions and programs were designed for this purpose. Most of the earlier attempts concentrated in trying to stabilize prices through the use mainly of buffer stocks, buffer funds, government intervention in commodity markets, and international commodity agreements.


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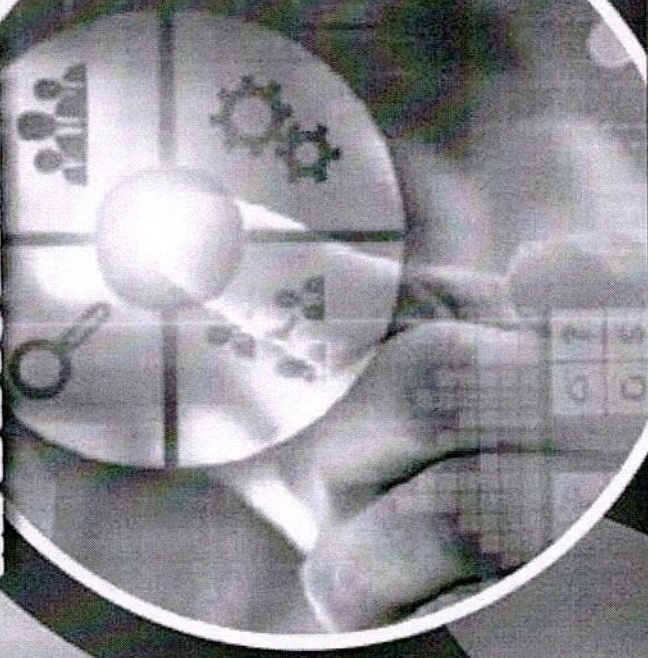
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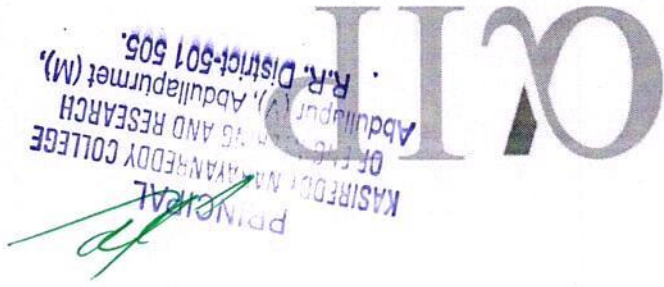
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Universities have included "Human Resource Management" as one of the subjects
Considering the importance of the Human Resource Management most

students of Commerce and Management.
given at the end of each chapter. I hope this book will be highly useful to the
the understanding of the students and to have sufficient practice, have also been
useful to the students who aspire for competitive examinations. Moreover, to test
students can easily understand the subject matter in depth. This will be more
questions and essay type questions have been given in such a manner that the
introduced in a gradual manner and at the end of each chapter short answer type
The distinguishing feature of this book is that the subject matter has been

number of examples have been given to make the understanding easy.
simple and lucid language. As part of simplification effort, throughout the text, a
in mind while preparing this book was to present the subject matter in a very
books on this subject is reported to be very complex. So the basic objective kept
difficulty in comprehending the subject matter. Further, the language used in the
with the students I could understand that the reason for fearing this subject is the
unfortunately remained an anathema for several courses. From my interaction
publish a book on Human Resource Management. This is a wonderful subject, but
This book on Human Resource Management my ambition in life is to

incorporated
the usefulness of the book. The feedback received from different sources has been
readers in all humbleness. All possible efforts have been made to enhance further
alike to the first edition. I am presenting thoroughly revised and enlarged, to my
I feel encouraged by the widespread response from teachers and students

PREFACE

in their Post-Graduate Programmes such as B.Com, M.Com, B.Com.(CA),
M.Com.(CA), BBA, MBA, and M.Phil.(Commerce), M.Phil.(MBA).

This book provides strong conceptual framework for the study and
understanding of the various aspects of Human Resource Management. I hope
that the book would be useful to students, research scholars, teachers and the
business community.

I register my profound sense of gratitude to the professors for their co-
operation and encouragement in writing this book and also for familiarizing this
book among the students.

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SYLLABUS

UNIT I

Nature and Scope of Human Resources Management – Differences between Personnel Management and HRM – Environment of HRM – Human Resource Planning – Recruitment – Selection – Steps in Selection Process – Uses of Various Tests.

UNIT II

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UNIT III

Remuneration – Components of remuneration – Incentives – Motivation – Welfare and social security measures.

UNIT IV

Labour Relation – Functions of Trade Unions – Forms of collective bargaining- Workers' participation in management – Industrial Disputes and Settlements (laws excluded)

UNIT V

Human Resource Audit – Types – Benefits – Scope – Approaches.

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ABSTRACT

Two coaches is one of the few capital and exertions extensive industries. Setting up a brand new factory and ancillary community calls for a big capital funding. The assembly procedure may be very hand

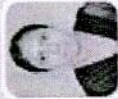
The Indian-wheeler industry which grew with aid of round 10%-in 1999-2000, became the motorbike segment that ruled the industry. Today the limitations. To entry for brand soa king new gamers are brand distribution network financial transaction and factory. The motive of studies is to locate answers to questions through the utility of medical strategies, investigations are particularly primarily based at the fact that us hidden and has no longer been found thus every onserve has its own motive or objectives


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STRATEGIC MANAGEMENT

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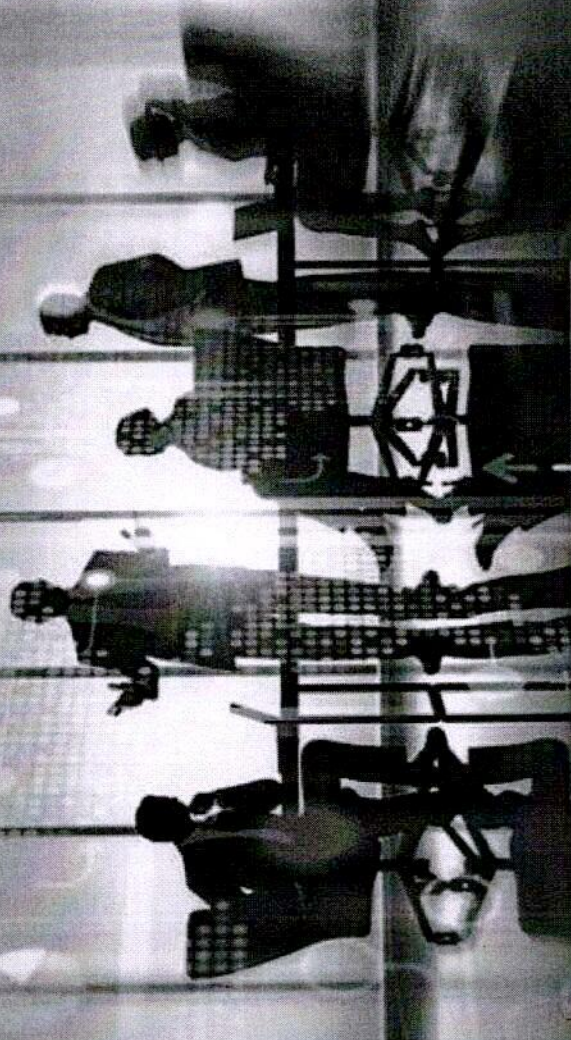
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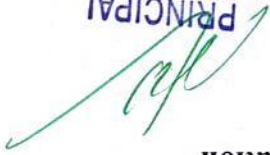
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Corporate Social Responsibility (CSR): Meaning and definition - History of CSR activities - Concept of Corporate citizenship - Need and importance of CSR and Stakeholders of CSR - Steps in the implementation of CSR activities - CSR and business ethics - CSR and corporate governance - CSR initiatives in India.

Unit - IV

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Functions of Management:- Motivation: - concept and importance - Contributions of McGregor, Maslow and Herzberg - Leadership - Concept and styles - Leadership traits - Communication - process and barriers - Control - concept - steps - tools - Coordination - Concept, Principles, Techniques.

Unit - II

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Unit - I

SYLLABUS

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Emerging concepts in management - Kaizen - TQM - TPM - MIS - ISO -
Change management - Stress management - Fish bone (ISHIKAWA) Diagram -
Holacracy - Rank & Yank - 20% time - Gamification - Flexi-working - Business
eco system - Logistic management.

Unit - V



Keeping in mind the complexities and problems faced in the field of auditing, I thought of bringing out a book on auditing with simple and easy

system. It is an important tool of management control. Prosperity and even the failure of a business depends upon the efficiency of audit the soundness of commercial and non commercial concerns. The success, Audit has become indispensable for business. It is through audit that one can see on me and continue the same way to help me reach greater heights in my life.

endowed but to surrender and seek his moment of notice to see all his blessings every point of time. At this juncture, I cannot thank him for all what he has utter it as natural. I believe that the signature of the spiritual signs guide my life at people who believe in God say it as spiritual and those who don't believe God The eternal source is divided across the society as spiritual and natural. The conscience but the rise cannot be achieved without the power of eternal source. With every fall there is a rise, the fall might be awkward due to human

for further improving the subject content as well as the presentation of this book. suggestions from all readers, specially from experienced researchers and scholars proves helpful in the development of genuine research studies. I look forward to preparation of the manuscript of this book. I shall feel amply rewarded if the book provided by the University of Madras in the form of 'on account' grant in the enhancing the standard of the book. I thankfully acknowledge the assistance of this book who made extremely valuable suggestions and has thus contributed in preparation of this book. I am equally grateful to the reviewer of the manuscript grateful to all those persons whose writings and works have helped me in the Department for providing the necessary stimulus for writing this book. I am I am highly indebted to my students and learned colleagues in the

PREFACE

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approach to meet the requirements of students appearing for B.Com.,
B.Com (CA) , & B.Com, (C.S) B.A. Co-operation and B.B.A. examinations. The
latest provision of the company Law and other related Acts have been taken into
consideration while writing this book. Self assignments drawn from the Question
papers of various universities and professional bodies have been given at end of
each chapter.
I place on record my deep sense of gratitude to the teachers, friends and
well-wishers who encouraged me to write this book. I am thankful to my family
members who helped me in many ways in bringing out this book. I am sure that
this book would be liked by teachers and students.
An constructive suggestion for further improvement of the book shall be
highly appreciated.

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ABSTRACT

In today's organizations, human resources, their skills, knowledge and competencies as well as synergy them become the most valuable out the new source of wealth, and the key ingredient of competitive advantage. In other words in with all work is knowledge work and intellectual capital is very input for economic success is very much logical to state that the ability to attract, retain, and use the talents of people provides a competitive edge to most of the organizational. The sum of this paper is to identify the relationship between human resource management practices and competitive advantage of organizations. This paper identifies a positive relationship between human resource management practices and organizational competitive advantage. And also finds that human resource management practices in modern organizational have two very important roles; one is to foster the performance of an organization and the other is to act as a support for achieving competitive advantage through people

Keywordic bun resource management practices, HRM. HRM practices, organizational competitive advantage, organizational performance

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ABSTRACT

A tax is a financial levy or other fee imposed through the taxpayer (natural or person) through the authorities or its equivalent function the non free of which is punishable by means of law.


Taxes also are gathered by means of many administrative divisions. Taxes consist of direct or oblique taxes and many be paid in coins or its equivalent.

TAX SAVINGS ACT

For a closed-end fund, investors must hold their cash in the agree with for a certain time period, as described within the phrases of the offering. The essential trouble for the investor is that the fund can't exit freely. In closed regimes, unit fees are calculated in the equal way as in the case of open regimes. However, these systems do now not price an entry/go out fee due to the fact the alternate is open. The main benefit of this scheme is that the investor can declare tax savings. This is similar to the ratio clause, however an additional component is that savings are eligible for tax underneath Section 80C, for this the investor ought to undergo the tax brackets. Sector particular schemes; These are sources/devices that put money into security best within the sectors or industries designated in the imparting files. As an instance. Pharmaceuticals, software program. The Importance and Benefits of Saving Taxes In order to offer safety to the government of the u. s. A. And to provide the sources that its citizens want, tax revenue becomes crucial. Thus, taxes must no longer only be imposed, but have to be taken into consideration a responsibility

Since HDFC and SBI price range have finished better than other finances during the last 10 years, it is higher to invest in those budget. They provide tax saving plans with tax remedy, in

keeping with phase (eighty c) income tax law, it's far higher to tax the money we will get proper profits and exemption tax. When the inventory markets are in an upward trend, it is foremost to put money into price range whose beta coefficient is extra than zero. Five Sensex's common go back has been around 18% considering the fact that inception. And the mutual fund impact is a good deal larger than the sentiment effect. So cap advise everybody to invest in hdfc mutual funds a mutual finances. 58 The contron dut price charge is likewise around 8%.


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REAL TIME EMBEDDED SYSTEMS

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SYLLABUS

UNIT I INTRODUCTION TO EMBEDDED SYSTEM DESIGN
Complex systems and microprocessors- Embedded system design process -Design example: Model train controller- Design methodologies- Design flows - Requirement Analysis - Specifications- System analysis and architecture design - Quality Assurance techniques - Designing with computing platforms - consumer electronics architecture - platform-level performance analysis.

UNIT II ARM PROCESSOR AND PERIPHERALS

ARM Architecture Versions - ARM Architecture - Instruction Set - Stacks and Subroutines - Features of the LPC 214X Family - Peripherals - The Timer Unit - Pulse Width Modulation Unit - UART - Block Diagram of ARM9 and ARM Cortex M3 MCU.

UNIT III EMBEDDED PROGRAMMING

Components for embedded programs- Models of programs- Assembly, linking and loading - compilation techniques- Program level performance analysis - Software performance optimization - Program level energy and power analysis and optimization - Analysis and optimization of program size- Program validation and testing.

UNIT IV REAL TIME SYSTEMS

Structure of a Real Time System -- Estimating program run times - Task Assignment and Scheduling - Fault Tolerance Techniques - Reliability, Evaluation - Clock Synchronization.

UNIT V PROCESSES AND OPERATING SYSTEMS

Introduction - Multiple tasks and multiple processes - Multirate systems- Preemptive real-time operating systems- Priority based scheduling- Interprocess communication mechanisms - Evaluating operating system performance- power optimization strategies for processes - Example Real time operating systems-POSIX-Windows CE. Distributed embedded systems - MPSoCs and shared memory multiprocessors. - Design Example - Audio player, Engine control unit - Video accelerator.

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ABSTRACT

Global excellent manufacturing is the essence of Tata Motors. Our facilities ensure that each step of the producing process - from layout to manufacturing - meets the best degree of pride. Our Plant Life combines modern day production techniques with the most contemporary generation. We have the largest engine development facility in India and America for climate and pedestrian trying out. It has the high-quality centers. Tata Motors' far flung factories are equipped with current manufacturing and assembly lines. Our non-stop attention on automation and innovation has made us a pacesetter in the Indian business automobile market and among at many leading worldwide vehicle producers. Sample The design offers the car individual. Our extra than seven years of experience inside the manufacturing of passenger and business vehicles permit us to deeply recognize customer desires, which also can be translated into the language of our personal influencing device. Our design devices in India, UK and Italy recognition on progressive design practices which include clay modeling, digital modeling, fashion, shape and packaging. Our present day automobiles - the Tigor and the Nexon - reflect our current worldwide layout. Most of the automobiles are designed to provide worldwide styling, higher using comfort and higher performance. While designing business cars,

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ABSTRACT

Hewthorne State results (Terpstra, 1979) Five major approaches that line led to one understanding of motivation are Maslow's need-hierarchy

Employees were vouldered pat mode input in the production of goods and services What

parlays changed this way of danking ab Employees was each refered in as the Hawthorne Shubes

conduited by Em Mayo from 1904 to 1932 (Dickson, 1973). This idy found cloyes are u motivated

solely by my wal capinyne fechavior in baked to these tudes (Dick 1973) The Hitheroe Studies began

the is approach to saamgauen, whereby the weah and mention of ruglloyes hecome the peasary focus

of managers (Bedi, 1993) Dederlag what motivated employees and how they were motivated was the

licus of my researchers following the publication of thetheory, Herzberg's two-factor theory, Vinouts

expectancy theory, Adeus equity diory, and Simon's reinforcement theory According to Maslow,

employees have five levels of seals (Maslow, 1941 phyuological, safety, social, ego, and self-

actualizing Maslow argued that lower level needs had to be unified before the nest higher level need

would motivate employees Herzberg's work categorized motivation into was Escions oratory mal

hygienes (Herzberg Mamer, & Suydderman 1949) Motivator on intrinsic factors, such as achievement

and recognition, produce job satisfaction Hygiene or drumie het, has pay any sectarity, produce job

dissatisfaction Many contemporary mufors levels defined the concept of motivation Motention has

been defined as the psychological process that gives behavior purpose and direction (Kretur, 1995),

predisposition to behave in purposive maner to achieve specific, manet needs (Buford Beden, Lindner,

1995); temal drive to satisfy an unsatisfied need (Higgs, 1994) and the will to achieve (Bedetian, 1993)

For this paper, motivation operationally defined as the immer force that tries individuals to accomplish

personal and orgaturational goals.

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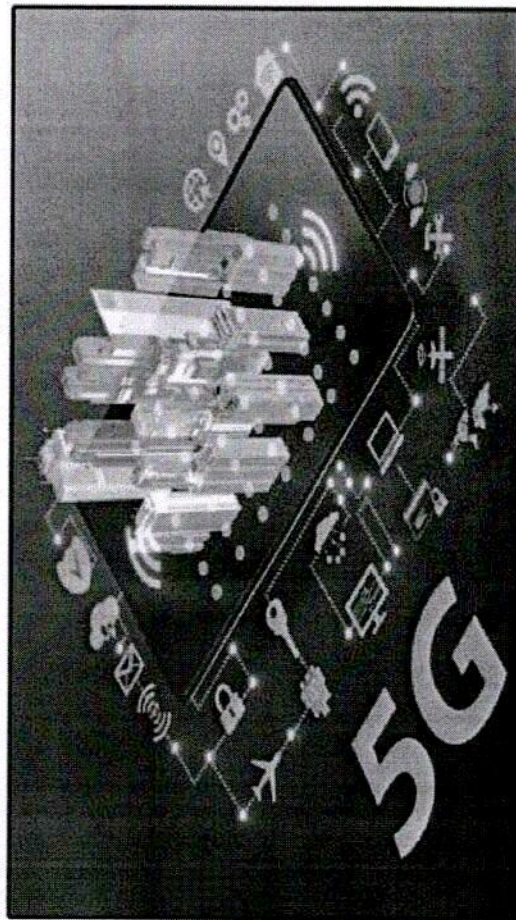


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Any attempt at any level can't be satisfactorily completed without our students' collaborative effort, resulting in our Book being unique.

We would also like to take the opportunity to express our specials thanks of gratitude to the publisher for providing a golden chance by giving us the most awaited platform to showcase our novel work.

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SYLLABUS

Unit - 1 WIRELESS CHANNELS

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UNIT - 2 CELLULAR ARCHITECTURE

Fundamentals of Cellular Systems - Brief Outline of Call Process Handoff - Roaming - Frequency Reuse - Channel Assessment Strategies - Interference and System Capacity - Improving the coverage and the capacity in cellular systems - Wireless Local Loop - Trunking and Grade of Service - Multiple Access Scheme - FDMA, TDMA, CDMA, Example Problem.

UNIT - 3 DIGITAL SIGNALING FOR FADING CHANNELS

Basic Transceiver Structure, Digital Modulation Technique, QPSK, Principles of Offset-QPSK, p/4-DQPSK, Minimum Shift Keying, Gaussian Minimum Shift Keying, Error performance in fading channels, OFDM principle - Cyclic prefix, Windowing, PAPR, Example Problem.

UNIT - 4 MULTIPATH MITIGATION TECHNIQUES

Introduction, Diversity - Micro and Macrodiversity, Diversity combining techniques, Error probability in fading channels with diversity reception, Rake receiver, Equalisation - Adaptive equalization, Linear and Non-Linear Equalization, Zero forcing and LMS Algorithms.

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ABSTRACT

This paper focuses on a modern insurance plan, called unit linked insurances, where differently from the traditional life insurance, the policyholder gets guaranteed insurance benefit, whereas in case of unit linked insurance policies, the policyholder gets both guaranteed insurance and non-guaranteed investment benefits. Both deterministic and stochastic approaches for unit linked insurances are considered with examples. Apart from the theory, an overview of the insurance industry in India and different unit linked insurance products is given

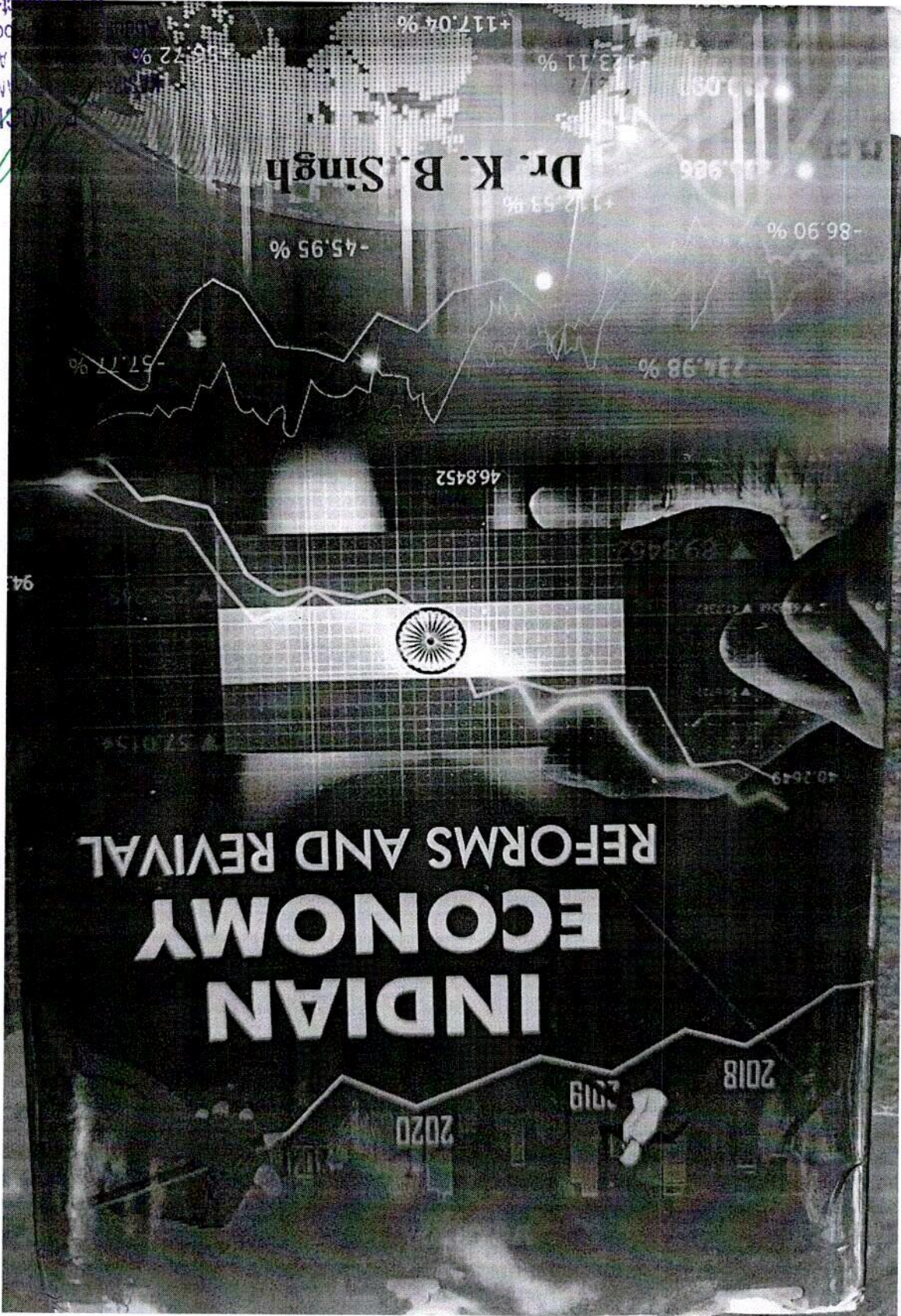
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ABSTRACT

A Foreign Institutional Investor is a agency integrated or registered outside india that enables to make investments money in India. An tremendous understanding of the Indian financial machine, mixed with a large marketplace, has made india an attractive destination for overseas funding External institutional customers consist of foreign pension finances, charge range mutual funds, mutual price range, organization coverage managers, nominee organizations institutional fund managers, university funds, endowments, foundations, philanthropic foundations, charities, expert strength law directors or owners out of doors the framework India gives its own cash or money for a massive, completely set up estate. The scope of information commentary includes secondary facts from distinctive pages Various data and information from the web sites of bse, ne, exchanges, authorities and sebi. Sensex and Nifty were ideal choices to be covered in this review as they are the maximum famous market indices and extensively used as benchmarks through market individuals. To draw close the theoretical detail, I reviewed various works, consisting of books on finance and capital markets. In addition Fit's overall performance can be visible thru the Internet. In order to observe the episodes in India with more fluency, I watch many letters, articles and magazines and visit numerous web sites to encompass their comments in this season. Modest inflows of FIs in India, which commenced in January 2010, have regularly increased to a mean month-to-month inflow of around Rs. 100 crores in the first six months of 2010. File are registered with SEBI Total IF investment in india during this period is anticipated at over Rs 50,000 crores in phrases of marketplace capitalization, the proportion of File has regularly accelerated to round nine of BSE's general market capitalization (which, in turn, bills for over ninety% of general debit securities marketplace capitalization in India)

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An Empirical Study on the Growth of Rural Women for Sustainable Development

-Jayadeva Reddy, Seelamt & Prof. Dr. Venngopal, Janaswamy

Abstract

The objective of this research paper was to enlighten the significant role played by the rural women for development through self reliance. The analysis was carried out on the basis of identification of certain operational variables like demographic and content factors in relation to the development of rural women. The vast majority of the Indian population resides in rural areas mostly consisting of joint or undivided families. They depend mostly on agriculture and related activities. The standard of living of the residents of rural areas is not up to mark. The women played an active role in different activities with a view to develop economically. An attempt was made to study the activities performed by the women at certain identified areas in the State of Telangana. The research design adopted was to organize an open survey by the administration of structured questionnaires to the rural women residents to elicit the opinions. The other methods employed in the data collection process were observation, organization of interviews. The sample size was 200 women engaged in various occupations. The respondents identified are from the rural areas of Chityala and Narkatepally of Nalgonda District, State of Telangana. The raw data collected was computed. The statistical techniques were employed for the purpose of analysis. The inferences were drawn based upon the overall consistency. It was concluded that the empowerment of rural

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Risk-Management in an Organization

-P. Kanniah¹
-Dr. Venugopal J.2
-Dr. Satija, V³
Jeydeva Reddy, S.⁴

Abstract

The present paper has focused on the crucial role played by the investors of different nature in the process of utilization of funds in the optimum manner. It is very important for an organization to identify the objectives of the risk management function. This includes the expectations that the organization has from the risk manager. The efficiency of the risk management may be seriously hampered if its objectives are not clearly specified. The clear declination of objective helps in identification of the risk management process as holistic approach rather than as isolated individual problems to be dealt with. In order to ascertain the risk management objective of the organization, it is very important to link the priorities, goals and on objectives of risk management with that of the organization from various exposures. This paper will discuss with all the dimensions and prospects of the risk management system in an organization.

Key words: Risk, Perpetuity, Organization, Reduction, Cost, Obligation.

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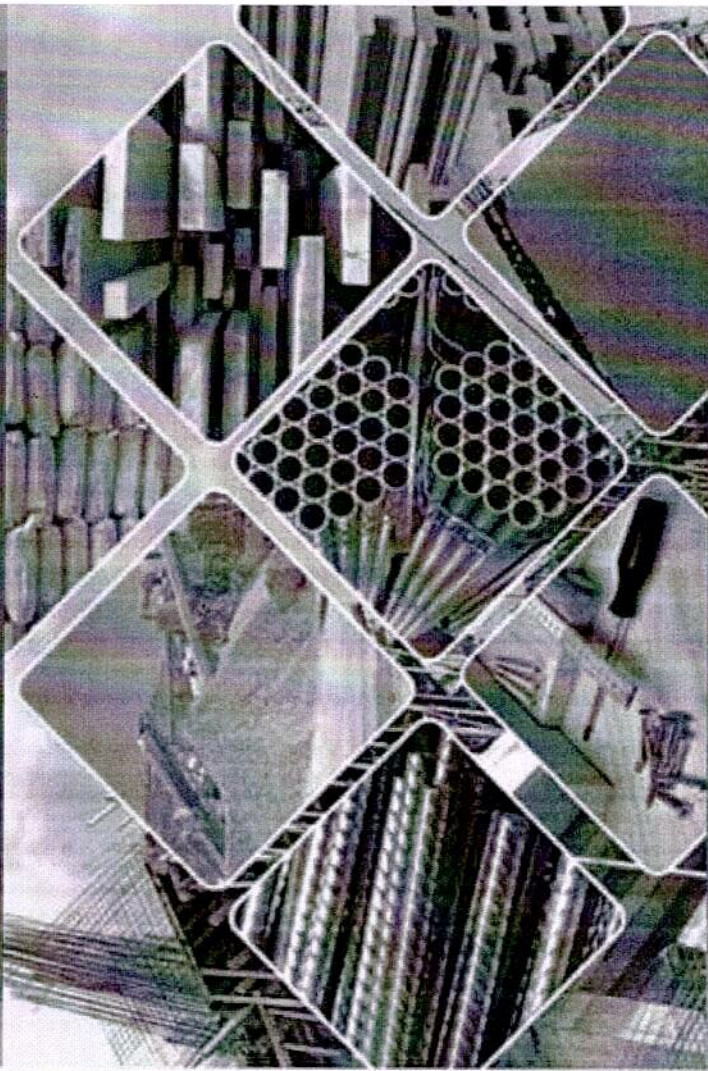
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