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MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2020/ 594 - A

06<sup>th</sup> July 2020

OFFICE ORDER

**Sub.:** Value Added Course on "Basics of Event Management" by the Department of Management.

Students are hereby informed that the Department of Management offering a value added course on "Basics of Event Management" from 3<sup>rd</sup> August 2020. So, interested students can enroll on or before 31<sup>st</sup> July 2020. For more information, students are advised to contact Mr. Rajesh Bhatt Sir (Head, Department of Management)

  
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06/07/20  
Mewar University  
Gangrar, (Chittorgarh)

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## **BASICS OF EVENT MANAGEMENT**

**UNIT – I** Why Event Management, Requirement of Event Manager, Analyzing the events, Scope of the Event, Decision-makers, Technical Staff, Developing Record-Keeping Systems, Establishing Policies & Procedures

**UNIT – II** Preparing a Planning Schedule, Organizing Tasks, Assigning Responsibility, and Communicating, Using the Schedule Properly, The Budget, Overall Planning tips, Checklists, Expert Resources, Computer Software Required.

**UNIT – III** Who are the people on the Event, Locating People, Clarifying Roles, Developing content Guidelines, Participant Tips, Reference Checks, Requirement Forms, Introduction, Fees & Honorariums, Expense Reimbursement, Travel Arrangements, Worksheets.

**UNIT – IV** Types of Events, Roles & Responsibilities of Event Management in Different Events, Scope of the Work, Approach towards Events

**UNIT – V** Introduction to PR – Concept, Nature, Importance, Steps, Limitations, Objectives Media – Types of Media, Media relations, Media Management PR strategy and planning – identifying right PR strategy, Brain Storming sessions, Event organization, writing for PR

### **Recommended Text:**

1. Event Management: A Blooming Industry and an Eventful Career by Devesh Kishore, Ganga Sagar Singh - Har-anand Publications Pvt. Ltd. -
2. Event Management by Swarup K. Goyal - Adhyayan Publisher - 2009
3. Event Management & Public Relations by Savita Mohan - Enkay Publishing House.



  
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Ref. No.: MU/RO/2020/ 593-A

06<sup>th</sup> July 2020

### OFFICE ORDER

**Sub.:** Value Added Course on "Chemistry Ict Tools" by the Department of Chemistry.

Students are hereby informed that the Department of Chemistry offering a value added course on "Chemistry Ict Tools" from 03<sup>rd</sup> August 2020. So, interested students can enroll on or before 31<sup>st</sup> July 2020. For more information, students are advised to contact Dr. Mohammad Ashid (Head, Department of Chemistry).



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**Mewar University**  
**Department of Chemistry**  
**Value Added Course**  
**Syllabus: Chemistry ICT Tools**

**Unit – 1**

Introduction to online chemical database search, Searching and downloading research papers using keywords in Scopus, Science direct, and google scholar, reaction search, product search, reactant search, structure search. Introduction to End Note and its applications.

**ACD ChemSketch software:-** Introduction, download and installation process, Drawing various chemical structures (acyclic, cyclic, polycyclic, heterocyclic), name generation from structures, conversion of name of molecule into its structures.

**Unit – 2**

**Chem3D software:-** Introduction, download and installation process, 3D structure of molecules, various 3D structure models, conversion of 2D structure into 3D structure, File extensions, Dihedral angles, Energy minimization, calculation of surface properties, solvent accessible surface. Atomic charge calculations, Calculation of dipole moments, Calculation of UV and IR spectra using MM2 calculations.

**Unit-3**

**Chimera 1.12 software:-** Introduction to Chimera software, Protein-ligand Docking, Protein data bank structure search, preparation of ligands and proteins for docking, Sites searching for ligand binding analysis, Docking of simple molecules over active site of protein molecules and analysis of docking results.

**Chemistry ICT Tools Lab**

1. Hands on training on software.



  
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Ref. NO: MU/RO/2020/ 800-A

10<sup>th</sup> September, 2020

### OFFICE ORDER

**Sub:** Value Added Course on "Communicative English" by Department of English

Students are hereby informed that Department of English is offering a value added course on "Communicative English" from 10th October 2020. So, interested students can enroll on or before 10th October, 2020. For more information, students are advised to contact Mrs. Vandana Chudawat (Head, Department of English).

  
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## DEPARTMENT OF ENGLISH

### Value Added Course: Communicative English

#### Course Objectives:

This course is designed to give learners the confidence to do basic interactions and transactions in oral and written English required in specific employment such as customer service, financial service, medical representative, retail and tourism. The prime focus is on developing speaking and listening skills, although there are also some reading and writing tasks.

#### Course Outcome:

- Increased ability of students to overcome anxiety and nervousness while appearing for interview and public speaking.
- Increased ability to make quality speeches and presentations.
- Impart the fundamentals of English as a language.
- Improved fluency in English speaking.

#### MODULE 1:

Effective Communication: Concept of Effective Communication; Components of Effective Communication -Conviction, confidence & enthusiasm, Type of communication, verbal, Non-Verbal Communication -its importance and Nuances-Facial Expression, Posture, Gesture, eye contact, Appearance barrier in communication feedback.

#### MODULE II:

Listening: It's importance, Good and Bad listening, Listening Communication Process, Advantage of listening, How to become a good listener

#### MODULE III:

Language for Communication: Language and Communication, General Principles of Writing; Improving Writing Skills; Essentials of good style; Expressions and words to be avoided; Grammar and Usage

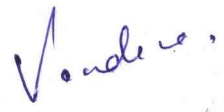
#### MODULE IV:

Reading Skills: Reading Skill; Purpose of Reading; Types of Reading; Techniques for Effective Reading.

#### MODULE V:

Employment Communication : Resume: Contents of Good Resume; Guidelines for Writing Resume Different Types of Resumes ;Reason for a Cover Letter to Apply for a Job ; Format of Cover Letter ;Different Types of Cover Letters; Job Interview :Importance and Factors Involving Job Interview; Characteristics of Job Interview, Job Interview Process; Job Interview Techniques- Manners and etiquettes to be maintained during an interview ;Sample Questions Commonly asked During Interview

  
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Vandana  
Vandana lhuadewat



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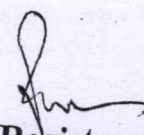
Ref. No.: MU/RO/2020/723

17<sup>th</sup> August 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Disaster Management" by Department of Civil Engineering.

Students are hereby informed that Department of Civil Engineering is offering a value-added course on "Disaster Management" from 1<sup>st</sup> September 2020. So, interested students can enroll on or before 28<sup>th</sup> august 2020. For more information, students are advised to contact Dr. Esar Ahmad (Head, Department of Civil Engineering)

  
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**VALUE ADDED COURSE  
DISASTER MANAGEMENT**

L	T	P	Cr
3	1	-	4

**Internal Evaluation: 50 Marks**  
**External Examination: 50 Marks**  
**Duration of Examination: 03 Hours**

**Course Objective:**

To develop the understanding among students about various disaster and hazards as well the characteristics and their assessment for risk assessment, risk reduction, coping with disaster, response, recovery and planning for disaster management.

**Course Outcome:**

Understanding the principles of disaster management, including risk assessment, hazard analysis, and emergency planning. Developing skills in disaster response and recovery, including effective communication, resource management, and coordination with emergency services. Developing critical thinking and problem-solving skills necessary for effective disaster management. Understanding the importance of community preparedness and engagement in disaster management.

<b>UNIT-I</b>	Understanding Disaster: Concept of Disaster - Different approaches - Concept of Risk - Levels of Disasters - Disaster Phenomena and Events (Global, national and regional). Hazards and Vulnerabilities: Natural and man-made hazards; response time, frequency and forewarning levels of different hazards - Characteristics and damage potential or natural hazards; Types of disasters- floods, cyclones, lightening, thunderstorms, hailstorms, avalanches, droughts, cold and heat waves, epidemics, pest attacks, forest fire, chemical, industrial, radiological and nuclear disasters, building collapse, rural and urban fire, road and rail accidents etc.
<b>UNIT-II</b>	Hazard assessment - Dimensions of vulnerability factors; vulnerability assessment - Vulnerability and disaster risk - Vulnerabilities to flood and earthquake hazards. Disaster Management Mechanism: Concepts of risk management and crisis managements - Disaster Management Cycle - Response and Recovery - Development, Prevention, Mitigation and Preparedness - Planning for Relief
<b>UNIT-III</b>	Capacity Building: Capacity Building: Concept - Structural and Non-structural Measures Capacity Assessment; Strengthening Capacity for Reducing Risk - Counter -Disaster Resources and their utility in Disaster Management - Legislative Support at the state and national levels. Coping with Disaster: Coping Strategies; alternative adjustment processes - Changing Concepts of disaster management - Industrial Safety Plan; Safety norms and survival kits -Mass media and disaster management
<b>UNIT-IV</b>	Planning for disaster management: Strategies for disaster management planning - Steps for formulating a disaster risk reduction plan - Disaster management Act and Policy in India - Organizational structure for disaster management in India - Preparation of state and district disaster management plan. Case studies: Natural and man-made disasters, preparedness and planning

**Recommended Books:**

- D B N Murthy Disaster Management: Text & Case Studies, Deep & Deep Pvt. Ltd.
- S L Goel, Encyclopedia of Disaster Management, Deep & Deep Pvt. Ltd.
- G K Ghosh, Disaster Management, A P H Publishing Corporation.
- Satish Modh, Citizen's Guide to Disaster Management Macmilan.
- Manual on Disaster Management, National Disaster Management, Agency Govt of India.
- Disaster Management by Mrinalini Pandey Wiley 2014.
- Disaster Science and Management by T. Bhattacharya, McGraw Hill Education (India) Pvt Ltd Wiley 2015.

  
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Himanshu Kumar Sadhy



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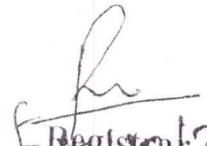
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17<sup>th</sup> December 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Full Stack Web Development" by the Department of Computer Science & Engineering

Students are hereby informed that the Department of Computer Science & Engineering is offering a value added course on "Full Stack Web Development" from 15<sup>th</sup> January 2021. So, interested students can enroll on or before 09<sup>th</sup> January 2021. For more information, students are advised to contact Mr. Ankit Navlakha (Head, Department of Computer Science & Engineering)

  
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## FULL STACK WEB DEVELOPMENT

**HTML:-** Introduction to HTML, Browsers and HTML, Editor's Offline and Online, Tags, Attribute and Elements, Doctype Element, Comments, Headings, Paragraphs, and Formatting Text, Lists and Links, Images and Tables.

**CSS:-** Introduction CSS, Applying CSS to HTML, Selectors, Properties and Values, CSS Colors and Backgrounds, CSS Box Model, CSS Margins, Padding, and Borders, CSS Text and Font Properties, CSS General Topics.

**JavaScript:-** Introduction to JavaScript, Applying JavaScript (internal and external), Understanding JS Syntax, Introduction to Document and Window Object, Variables and Operators, Data Types and Num Type Conversion, Math and String Manipulation, Objects and Arrays, Date and Time, Conditional Statements, Switch Case, Looping in JS, Functions.

**ReactJS:-** Introduction, Templating using JSX, Components, State and Props, Lifecycle of Components, Rendering List and Portals, Error Handling, Routers, Redux and Redux Saga, Immutable.js, Service Side Rendering Unit Testing, Webpack.

**Node JS:-** Node js Overview, Node js - Basics and Setup, Node js Console, Node js Command Utilities

Node js Modules

Node js Concepts

Node js Events

Node js with Express js

Node js Database Access

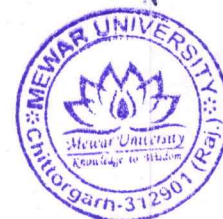
**MongoDB:-** SQL and NoSql Concepts, Create and Manage MongoDB, Migration of Data into MongoDB, MongoDB with PHP, MongoDB with NodeJS, Services Offered by MongoDB

**Python:-**

Learn the basics of python and use it to develop applications. Also learn to work with mongodb in python. This additional language is a value-added skill as python is increasingly in demand for full stack projects. In this module, you will learn:

Python Installation & Configuration, Developing a Python Application, Connect MongoDB with Python

  
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**Ref. No.: MU/RO/2020/ 610-A**

**12<sup>th</sup> July 2020**

**OFFICE ORDER**

**Sub.:** Value Added Course on "Fundamentals of Marketing Management" by the Department of Management.

Students are hereby informed that the Department of Management offering a value added course on "Fundamentals of Marketing Management" from 1<sup>st</sup> August 2020. So, interested students can enroll on or before 31<sup>st</sup> July 2020. For more information, students are advised to contact Mr. Rajesh Bhatt Sir (Head, Department of Management)

  
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## **Fundamentals of Marketing Management**

**Course Objective:** The objective of this paper is to familiarize the participants with concepts, Techniques and skills of marketing and their applications in business

### **UNIT1: Intro to marketing**

Nature, Scope & importance of Marketing, basic concepts, function of marketing, marketing Vs Selling, role & functions of Marketing Manager, Marketing Environment

### **UNIT2: Market Segmentation, Targeting & Positioning:**

Meaning, Definition, Different ways to Segment Market, Bases for Market Segmentation, Targeting- Meaning & Procedure, Positioning- Meaning, Usefulness, Product Positioning Strategy

### **UNIT3: Product, Pricing & Marketing Mix:**

Marketing Mix, Product – Concept, Product Decision, New Product Development, New Product Planning & Development, Product Mix, Product Life Cycle, Pricing – Objective, Decision, Method of Setting Pricing, Pricing Strategies

### **UNIT4: Promotion Mix & Physical Distribution Decision:**

Meaning, Element of Promotion Mix – Advertising, Publicity, Sales Promotion, Personal Selling, Direct Marketing & Public Relation, Physical Distribution (Place) – Meaning, Type of Channels

### **UNIT5: Management Information System & Marketing Research:**

Concept & components of MIS, Marketing Research – Meaning & Scope, Marketing Research Procedure, Need for Marketing Research, Green Marketing



  
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Ref. No.: MU/RO/2020/ 952-A

13<sup>th</sup> July 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Gas Dynamics" by the Department of Mechanical Engineering.

Students are hereby informed that the Department of Mechanical Engineering is offering a value added course on "Gas Dynamics" from 17<sup>th</sup> August 2020. So, interested students can enroll on or before 14<sup>th</sup> August 2020. For more information, students are advised to contact Mr. Kapil Nahar (Head, Department of Mechanical Engineering).

  
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**Name of Course:** Gas Dynamics  
**Type of Course:** Value Added Course  
**Course Code:** ME-12021  
**Academic Year:** 2020-21  
**Duration of course:** 60 Hours

**Unit-1: Fundamentals of compressible flow**

Ideal gas relationship, The adiabatic energy equation, Mach number, and its significance, Mach waves, Mach cone, and Mach angle, static and stagnation states, relationship between stagnation temperature, pressure, density and enthalpy in terms of Mach number, stagnation velocity of sound, reference speeds, various regions of flow, Effect of Mach number on compressibility, Area velocity relationship

**Unit-2: One Dimensional Isentropic flow**

General features of isentropic flow, performance curve, Comparison of adiabatic and isentropic process, One dimensional isentropic flow in ducts of varying cross-section-nozzles and diffusers, operation of nozzles under varying pressure ratio, mass flow rate in nozzles, critical properties and choking, area ratio as function of Mach number, Impulse function, non-dimensional mass flow rate in terms of pressure ratio, area ratio and Mach number, Working charts and gas tables, Application of Isentropic flow. Wind tunnels: Requirements, classification, and applications of different types of wind tunnels.

**Unit-3: Normal shock Waves**

Development of shock wave, Thickness of shock wave, governing equations, Strength of shock waves, Prandtl-Mayer relation, Rankine-Hugoniot relation, Mach number in the downstream of normal shock, variation of flow parameters across the normal shock, normal shock in Fanno and Rayleigh flows, impossibility of a rarefaction shock, supersonic diffusers, supersonic pitot tube

**Unit-4: Flow in constant area duct with friction (Fanno flow)**

Fanno curve and Fanno flow equations, solution of Fanno flow equations, variation of flow properties, variation of Mach no. with duct length, isothermal flow in constant area duct with friction, tables and charts for Fanno flow, Experimental friction coefficients

  
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Ref. No.: MU/RO/2020/1369

24<sup>st</sup> December, 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Introduction and Hands on Training on Chems sketch" by Department of Chemistry.

Students are hereby informed that Department of Chemistry offering a value added course on "Introduction and Hands on Training on Chems sketch" from 11<sup>th</sup> January 2021. So, interested students can enroll on or before 11<sup>th</sup> January 2021. For more information, students are advised to contact Dr. Mohammad Ashid (Head, Department of Chemistry).

  
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**Value Added Course**  
**Introduction and hands on training on Chems sketch software**  
**(CHEM-VA-103)**

**Course Outcomes**

On successful completion of this course, students should be able to:

1. Student will be able to understand the basic tools about drawing the structures of chemical compounds.
2. Student will be able to understand and able to find out the name generation from structures, conversion of name of molecule into its structure, calculation of physical properties such as density, molecular weight, molecular formula, refractive index from structural formula, bond angles, bond lengths, dihedral angles.
3. Student will be able to visualize molecule in 3-D, understand the concept of symmetry elements and symmetry operations.
4. Understand the detail chemistry and use of Chems sketch software for drawing of variety of chemistry molecules, spectral simulations etc.

**Unit – 1**

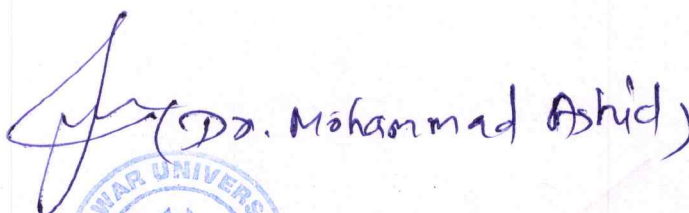
Introduction, download and installation process, Drawing various chemical structures (acyclic, cyclic, polycyclic, heterocyclic), name generation from structures, conversion of name of molecule into its structure, calculation of physical properties such as density, molecular weight, molecular formula, refractive index from structural formula, bond angles, bond lengths, dihedral angles.

**Unit – 2**

Introduction to basic features of Chems sketch, Chemical structure to name conversion, Chemical name to structure conversion, NMR spectrum simulation (both <sup>1</sup>H NMR & <sup>13</sup>C NMR), Mass spectrum simulation, structure clean up, export to SVG, PDF. Molecular modelling, create and modifying images of chemical structures, write and perform chemical equations and diagrams

**Introduction and hands on training on Chems sketch software Lab**

1. Hands on training on software.

  
(Dr. Mohammad Ashid)

  
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Ref. No.: MU/RO/2020/1203

20<sup>th</sup> November 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Introduction to Data Mining" by the Department of Computer Science & Engineering

Students are hereby informed that the Department of Computer Science & Engineering is offering a value added course on "Introduction to Data Mining" from 04<sup>th</sup> January 2021. So, interested students can enroll on or before 31<sup>st</sup> December 2020. For more information, students are advised to contact Mr. Ankit Navlakha (Head, Department of Computer Science & Engineering)

  
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## INTRODUCTION TO DATA MINING

<b>UNIT-I</b>	<b>Data Mining:</b> Introduction to Data Mining, How Data Mining Works, Data Mining Tasks, Data Mining Elements, Data Mining Architecture, Advantages, Disadvantages, <b>Data Pre Processing:</b> Introduction, Task of Data Pre-processing, Data Cleaning, Data Integration, Transformation. Data Reduction.
<b>UNIT-II</b>	<b>Data Mining Techniques:</b> Introduction, Decision Tree, Clustering, Genetic Algorithms, Artificial Neural Networks. <b>Data Warehouse:</b> Introduction, Definition, Characteristics, Difference between Data Warehouse and Database System, Advantage and Disadvantages, Relationship between Data Mining and Data Warehousing.
<b>UNIT-III</b>	<b>Data Warehouse Architecture :</b> Data Warehouse Architectures, Overall and Typical Architecture, Three-Tier architecture, Problem in Three-Tier architecture, Goal of Data Warehouse Architecture, Frameworks of Data Warehouse, Data Warehouse back-end Tools and Utilities.
<b>UNIT-IV</b>	<b>Components of Data Warehouse :</b> Components of Data Warehouse, Meta Data, Introduction, Definition, Types of Meta data, Use of Meta Data, Data Marts, Access Tools, Data Warehouse Database
	<b>Recommended Books:</b> <ul style="list-style-type: none"> <li>• Han Jiawei, KamberMicheline,Data Mining:concepts and techniques, 2<sup>nd</sup> ed., Morgan Kaufmann Publishers</li> <li>• Berry M J A and LinoffG, Mastering Data Mining: The Art and Science of Customer Relationship Management, Wiley Computer Publishing</li> <li>• PrabhuC S R,Data Ware housing: Concepts, Techniques, Products and Applications, Prentice Hall of India</li> <li>• AdriansPieter, ZantingeDolf, Data Mining, Addison Wesley</li> <li>• Seidman, Data Mining with Microsoft SQL Server, Prentice Hall of India</li> <li>• Berson Alex and Smith Stephen.</li> </ul>



  
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Ref. No.: MU/RO/2020/611

12<sup>th</sup> July 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Introduction to Financial Market" by Department of Management.

Students are hereby informed that Department of Management offering a value added course on "Introduction To Financial Market" from 1<sup>st</sup> August 2020. So, interested students can enroll on or before 31<sup>st</sup> July 2020. For more information, students are advised to contact Mr. Rajesh Bhatt Sir (Head, Department of Management)



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## VALUE ADDED COURSE

### Introduction to Financial Market

#### Course Outcome:

- The objective of this paper is to familiarize the participants with the concepts of financial services and system prevailing in India.

#### UNIT 1- Financial System

An overview of Financial System, Financial Markets, Structure of Financial Market (Organised and unorganised market), Components of Financial System, Major Financial Intermediaries, Financial products, Functions of Financial System, Regulatory framework of Indian financial system, (Overview of SEBI and RBI-Role and importance as regulators).

#### UNIT 2- Commercial Banks, RBI and Development Banks

Concept of Commercial Banks- Functions, Investment Policy of Commercial Banks, Liquidity in Banks, Asset structure of commercial banks, Non-Performing Assets, Interest Rate Reforms, Capital Adequacy Norms, Reserve Bank of India- Organisation and Management, Role and Functions, Development Banks- Characteristics of Development Banks, Need and emergence of Development Financial Institutions in India, Functions of Development Banks.

#### UNIT 3- Insurance

Concept, Basic Characteristics of Insurance, Insurance Company Operations, Principles of Insurance, Reinsurance, Purpose and need of Insurance, Different kinds of Life Insurance Products, Basic Idea about Fire and Marine Insurance and Banc assurance

#### UNIT 4- Mutual Funds

Concept of Mutual Funds, Growth of Mutual Funds in India, Features and Importance Mutual Fund, Mutual Fund Schemes, Money Market Mutual Funds, Private School Mutual Funds, Evaluation of the Performance of Mutual Funds, Functioning of Mutual Funds in India.

#### UNIT 5- Lease Finance and Venture Capital Finance

Lease Finance- Meaning, definition and types of lease agreements; advantages and disadvantages from the point of view of lessor and lessee; purchase v/s leasing, borrowing v/s leasing; lease finance in India Venture Capital Financing – meaning, importance/need, scope of venture capital finance; venture capital v/s investors; Venture Capital in India

*(Rayan Maurya)*



*(Signature)*  
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Ref. No.: MU/RO/2020/ 679 - A

03<sup>rd</sup> August 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Introduction to Labview" by the Department of Electrical Engineering

Students are hereby informed that the Department of Electrical Engineering is offering a value added course on "Introduction to Labview" from 14<sup>th</sup> September 2020. So, interested students can enroll on or before 31<sup>st</sup> August 2020. For more information, students are advised to contact Dr. V. Siva Brahmaiah Rama (Head, Department of Electrical Engineering)

  
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**BOARD OF STUDY MEETING 2020-21**  
**Faculty of Engineering and Technology**  
**Value Added Course**  
**Course: Introduction to LABVIEW (Course Duration: 45 Days)**

**Course Content**

1. Getting started with LabVIEW Virtual Instruments-Building a virtual instrument
2. Customizing a VI- Building a VI from a blank VI
3. Analyzing and saving a signal- Building an analysis VI
4. Hardware: Acquiring Data and Communicating with instruments (Windows)- Hardware and software requirements
5. Other LabVIEW features.

**Matter for Consideration.**

Resolved to request the Board of Study meeting to consider and approve the above mentioned course.



Signature and Name of Expert



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Ref. No.: MU/RO/2020/ 755

25<sup>th</sup> Aug 2020

**OFFICE ORDER**

Sub.: Value Added Course on "Introduction to Robotics" by Department of Electronics & Communication Engg.

Students are hereby informed that Department of Electronics & Communication Engg is offering a value added course on "Introduction to Robotics" from 16<sup>th</sup> Sept, 2020. So, interested students can enroll on or before 16<sup>th</sup> Sept, 2020. For more information, students are advised to contact Mr. Gaurav Sharma (Head, Department of ECE)

  
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## VALUE ADDED COURSE

### Introduction to Robotics

#### Course Outcomes:

After the completion of the course, student will be able to:

1. Understand the robotics design and implementation.
2. Gain the knowledge on fundamentals of robotic programming
3. Comprehend, classify and analyze the behavior of different types of sensors and actuators.
4. Understand the ROS fundamentals
5. Gain the knowledge about the types of actuators: electrical, pneumatic, and hydraulic, performance criteria and selection.

#### Unit: 1 Robotics Introduction

Robot Introduction- Seven Criteria of Defining a Robot, Robot Controllers-Major Components, Robot Vocabularies- Robotics Middleware Basics.

#### Unit: 2 Programming the Robot's Sensors

A close look at Sensors, Programming the Robot's Sensors, Programming the Actuators , Building Robot's Softbot

#### Unit: 3 Robot Operating System (ROS)

ROS Basics-ROS Equation, History of ROS, Sensors and Robots Supporting ROS, ROS Architecture and Concepts, ROS Filesystem Level, ROS Computation Graph Level, ROS Community Level

#### Unit: 4 ROS Fundamentals

Ubuntu Linux for Robotics-Ubuntu Graphical User Interface, Shell Commands, C++ and Python for Robotic Programming- Basic Concepts with Examples

  
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Ref. No.: MU/RO/2020/ 770

28<sup>th</sup> August 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Introduction to Web Architecture" by the Department of Computer Science & Engineering

Students are hereby informed that the Department of Computer Science & Engineering is offering a value added course on "Introduction to Web Architecture" from 17<sup>th</sup> September 2020. So, interested students can enroll on or before 10<sup>th</sup> September 2020. For more information, students are advised to contact Ms. Jyoti Totla (Head, Department of Computer Science & Engineering)

  
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# INTRODUCTION TO WEB STACK TECHNOLOGY

UNIT-I	Mean Stack Architecture of MEAN Stack Setup components of MEAN Stack Exploring the project structure, Angular Front-end Adding new component. Creating user interface and Fetching data Installing angular material Creating toolbar using MEANS Stack Creating expansion panel Using Structural Directives Using Property and Event Binding Creating a model Using FormsService in MEAN Stack Life Cycle Hooks
UNIT-II	LAMP Stack, Apache web server, MySQL Database System , PHP Scripting Language, LAMP Architecture, LAMP Stack Application Development,
UNIT-III	J2EE- INTRODUCTION TO JAVA, JAVA API, Components-Web Clients, application client, The JavaBeans™ Component Architecture, J2EE Containers, container Types, Web Services Support,, JSP, SERVLET, JDBC, SMTP, Enterprise JavaBeans Technology, STRUTS, SPRING
UNIT-IV	The .Net Framework: Introduction, C# Using Libraries- Namespace- System, Namespace- System, Input-Output, Multi-Threading, Networking and sockets, Advance Features using C#-Web Services, Window Service, ASP.NET PAGE LIFE CYCLE, WEB FORM, ADO.NET, Distributed Applications
Reference Books	<ul style="list-style-type: none"> <li>• Full Stack JavaScript Development with MEAN by Adam Bretz</li> <li>• J2EE: The complete Reference</li> <li>• Java EE 8 Application Development: Develop Enterprise Applications Using the Latest Versions of CDI, JAX-RS, JSON-B, JPA, Security, and More Book by David R. Heffelfinger</li> <li>• PHP: The Complete Reference</li> <li>• Learning PHP, MySQL &amp; JavaScript with j Query, CSS &amp; HTML5 by Robin Nixon</li> <li>• Web Development for beginners: Learn HTML/CSS/Javascript step by step with this Coding Guide, Programming Guide for beginners, Website development White Belt Mastery</li> </ul>




  
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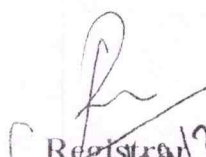
Ref. No.: MU/RO/2020/ 782

07<sup>th</sup> September 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Introduction to Stack Technology" by the Department of Computer Science & Engineering

Students are hereby informed that the Department of Computer Science & Engineering is offering a value added course on "Introduction to Stack Technology" from 05<sup>th</sup> October 2020. So, interested students can enroll on or before 05<sup>th</sup> October 2020. For more information, students are advised to contact Ms. Jyoti Totla (Head, Department of Computer Science & Engineering)

  
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07/09/20

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## FULL STACK WEB DEVELOPMENT

UNIT - I	<p><b>HTML:-</b> Introduction to HTML, Browsers and HTML, Editor's Offline and Online, Tags, Attribute and Elements, Doctype Element, Comments, Headings, Paragraphs, and Formatting Text, Lists and Links, Images and Tables.</p> <p><b>CSS:-</b> Introduction CSS, Applying CSS to HTML, Selectors, Properties and Values, CSS Colors and Backgrounds, CSS Box Model, CSS Margins, Padding, and Borders, CSS Text and Font Properties, CSS General Topics</p>
UNIT - II	<p><b>JavaScript:-</b> Introduction to JavaScript, Applying JavaScript (internal and external), Understanding JS Syntax, Introduction to Document and Window Object, Variables and Operators, Data Types and Num Type Conversion, Math and String Manipulation, Objects and Arrays, Date and Time, Conditional Statements, Switch Case, Looping in JS, Functions.</p> <p><b>ReactJS:-</b> Introduction, Templating using JSX, Components, State and Props, Lifecycle of Components, Rendering List and Portals, Error Handling, Routers, Redux and Redux Saga, Immutable.js, Service Side Rendering</p> <p>Unit Testing, Webpack</p>
UNIT - III	<p><b>NodeJS:-</b> Node js Overview, Node js - Basics and Setup, Node js Console, Node js Command Utilities</p> <p>Node js Modules</p> <p>Node js Concepts</p> <p>Node js Events</p> <p>Node js with Express js</p> <p>Node js Database Access</p> <p><b>MongoDB:-</b> SQL and NoSql Concepts, Create and Manage MongoDB, Migration of Data into MongoDB, MongoDB with PHP, MongoDB with NodeJS, Services Offered by MongoDB</p>
UNIT - IV	<p><b>Python:-</b></p> <p>Learn the basics of python and use it to develop applications. Also learn to work with mongodb in python. This additional language is a value-added skill as python is increasingly in demand for full stack projects. In this module, you will learn:</p> <p>Python Installation &amp; Configuration, Developing a Python Application, Connect MongoDB with Python</p>
Reference Books	<ul style="list-style-type: none"> <li>• .NET-based Stack: ASP.NET Core 3 and Angular 9</li> <li>• The Full Stack Developer: Your Essential Guide to the Everyday Skills Expected of a Modern Full Stack Web Developer by Chris Northwood</li> <li>• Modern Full-Stack Development: Using TypeScript, React, Node.js, Webpack, and Docker by Frank Zammetti</li> <li>• Hands-On Full Stack Development with Spring Boot 2 and React by Juha Hinkula</li> </ul>

  
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Ref. No.: MU/RO/2020/ 1339-A

21<sup>st</sup> December 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on “Land Surveying” by the Department of Civil Engineering.

Students are hereby informed that the Department of Civil Engineering is offering a value-added course on “Land Surveying” from 05<sup>th</sup> January 2021. So, interested students can enroll on or before 01<sup>st</sup> January 2021. For more information, students are advised to contact Dr. Esar Ahmad (Head, Department of Civil Engineering).

  
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## B TECH CIVIL ENGINEERING LAND SURVEYING

L	T	P	Cr
3	1	-	4

**Internal Evaluation: 50 Marks**  
**External Examination: 50 Marks**  
**Duration of Examination: 03 Hours**

### Course Objective:

To acquaint students about basic principles and basic instruments related with land surveying & they will learn the various methods and techniques used in land surveying

<b>UNIT-I</b>	Classifications and basic principles of surveying – Equipment and accessories for ranging and chaining – Methods of ranging – Compass – Types of Compass – Basic Principles Bearing – Types – True Bearing – Magnetic Bearing. Plane Table Surveying- Parts and accessories. Methods of surveying. Two-point and three-point problems.
<b>UNIT-II</b>	Levelling- Principles and theory of Levelling – Datum- – Bench Marks – Temporary and Permanent Adjustments- Methods of Levelling- Booking – Reduction – Sources of errors in Levelling – Curvature and refraction. Horizontal and vertical angle measurements – Temporary and permanent adjustments – Heights and distances – Contour – Contouring – Characteristics of contours – Methods of contouring – Tachometric contouring – Contour gradient – Uses of contour plan and map
<b>UNIT-III</b>	Curve Surveying-Curves – Necessity – Types, Simple curves, Elements, Designation of curves; Setting out simple curves by linear methods, Transition curves Characteristics, Vertical curves –Types. Introduction to Geodetic Surveying, Principal & classification of triangulation system, Selection of base line and stations, Orders of triangulation- triangulation figures, Station marks.
<b>UNIT-IV</b>	Field Astronomy: Introduction & Instruments purpose, Astronomical terms, Time & conversion of time, Abbreviations, Determination of azimuth, Latitude and longitude. Total Station : Advantages – Fundamental quantities measured – Parts and accessories – working principle – On board calculations – Field procedure – Errors and Good practices in using Total Station

### Recommended Books:

- Punmia B C, Surveying Vol. I, Laxmi Publishers, 2005
- Arora K R, Surveying Vol. I, Standard Book House
- Punmia B C, Surveying Volume II, Laxmi Publisher, 2005.
- Arora K R, Surveying Vol. II, Standard Book House
- Bhatta B, Remote sensing and GIS, 2009, Oxford University press
- Ghilani C D, Wolf P R, Elementary Surveying, Pearson Education, Limited, 2011.
- <http://nptel.iitm.ac.in/courses/Webcourse,contents/IIT,ROORKEE/SURVEYING/home.htm>
- <http://nptel.iitm.ac.in/courses/Webcourse,contents/IIT,KANPUR/ModernSurveyingTech/ui/TOC1.htm>




L.S. Arora  
 Dr. Esav

  
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Ref. No.: MU/RO/2020/149

05<sup>th</sup> July 2020

OFFICE ORDER

**Sub.:** Value Added Course on "Management Information System" by the Department of Mechanical Engineering.

Students are hereby informed that the Department of Mechanical Engineering offering a value added course on "Management Information System" from 02<sup>nd</sup> August 2020. So, interested students can enroll on or before 31<sup>st</sup> July 2020. For more information, students are advised to contact Mr. Dinesh Kumar (Head, Department of Mechanical Engineering)

  
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**Name of Course:** Management Information Systems

**Type of Course:** Value Added Course

**Course Code:** ME-42021

**Academic Year:** 2020-21

**Duration of course:** 60 Hours

### **Unit 1**

Introduction to Management Information systems :Types of MIS, Capabilities, Complements, CCR Framework; Role of manager with respect to IT in an organization  
Database management systems, Data Warehousing, Foundations of business intelligence, Data and Text Mining.  
Strategic Enterprise Systems - ERP, SCM, CRM, SRM.  
Operational Support Systems - Manufacturing Systems, Sales and Marketing Systems, HRIS,

### **Unit 2**

Finance and Accounting Systems  
IT Strategy and Balanced Scorecard – IT strategies, IT- business alignment, balanced scorecard, cloud and vendor strategies  
Mobile and E-commerce – B2C, B2B and e-procurement, C2C and mobile commerce

### **Unit 3**

Emerging Technologies – Cloud computing, Big Data Technologies, Internet of Things, Bring Your Own Device (BYoD,) Virtual Reality, Augmented Reality, Blockchain, Artificial Intelligence Emerging Technologies

### **Unit 4**

Knowledge Management – Decision Support Systems, Expert Systems, Learning Management Systems, Executive Information Systems  
Social ,ethical and security issues in MIS



  
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**Ref. No.: MU/RO/2020/ 678-A**

**01<sup>st</sup> August 2020**

**OFFICE ORDER**

**Sub.:** Value Added Course on “Market Research and Consumer Behaviour” by the Department of Management.

Students are hereby informed that the Department of Management offering a value added course on “Market Research and Consumer Behaviour” from 01<sup>st</sup> September 2020. So, interested students can enroll on or before 25<sup>th</sup> August 2020. For more information, students are advised to contact Mr. Rajesh Bhatt Sir (Head, Department of Management)

  
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#### **Unit 4**

**Entrepreneurial Development Programme:** Entrepreneurial Development Programme, their Role, Relevance & Achievements, Role of Government in Organizing Entrepreneurial Development Programme, Critical Evaluation

#### **Unit 5**

**Role of Entrepreneur:** Role of Entrepreneur in Economic Growth as an Innovator, Generation of Employment Opportunity, Bringing about social stability, Role in Export Promotion & Import substitution, International Entrepreneurial Opportunities, Forex Earnings.

#### **Recommended Text**

Nina Jacob, *Creativity in Organisations* (New Delhi: Wheeler, 1998)

Holt, *Entrepreneurship: New Venture Creation* (New Delhi: Prentice-Hall. 1998)

### **Market Research and Consumer Behavior**

#### **Course Objectives**

1. To give the students a perspective to understand the application of market research in framing effective marketing strategies.
2. To understand consumer behaviour in an informed and systematic way.
3. To analyse personal, socio-cultural, and environmental dimensions that influence consumer decisions making.
4. To enable students in designing and evaluating the marketing strategies based on fundamentals of consumer buying behaviour.

**Unit I:** Market Research: Concept and significance; Types of Research; Research approach and Process; Consumer research paradigms; Combining qualitative and quantitative research; Sampling, Data – Types and Collection; Questionnaire and Schedule; Scaling Techniques; Data analysis & reporting research findings; Barriers to market research.

**Unit II:** Consumer behavior: Concept and Implications; Integration of consumer behavior in the marketing concept; Consumer Decision Making Process; Levels of consumer decision making; Types of Consumer Decision Making.

**Unit III:** Key Determinants of Consumer Behaviour and Marketing Strategy; Providing Customer Value and Retention; Market segmentation: Concept, Bases and Significance; How market segmentation operates; Criteria for effective targeting of market segments; Target Marketing strategies.

**Unit IV:** Consumer Motivation; Dynamics of Motivation, type and systems of needs; Personality and theories of personality (relevant to marketing); Consumer diversity; Self and self-image; Consumer Perception; Dynamics of perception and consumer imagery; Consumer Learning; Behavioral and cognitive learning theories; Consumer Attitude; Attitude formation and behavior; Communication and consumer behavior.

  
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**Ref. No.: MU/RO/2020/ 607-A**

**10<sup>th</sup> July 2020**

**OFFICE ORDER**

**Sub.:** Value Added Course on “Modeling and Simulation” by the Department of Mechanical Engineering.

Students are hereby informed that the Department of Mechanical Engineering offering a value added course on “Modeling and Simulation” from 20<sup>th</sup> August 2020. So, interested students can enroll on or before 15<sup>th</sup> August 2020. For more information, students are advised to contact Mr. Dinesh Kumar (Head, Department of Mechanical Engineering).

  
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**Name of Course:** Modeling and Simulation

**Type of Course:** Value Added Course

**Course Code:** ME-32021

**Academic Year:** 2020-21

**Duration of course:** 60 Hours

### **Unit 1**

Fundamental Concepts in Mathematical Modelling: Abstraction – linearity and superposition – balance and conservation laws and the system – boundary approach.

Lumped – Element Modeling: Mechanical systems – Translational, rotational. Hydraulic systems. Thermal systems. RLC Electrical Systems.

### **Unit 2**

Modeling of First-order and Second-order Systems: Governing equations for free and forced responses – transient response specifications – experimental determination – Laplace transform. Time Domain, Frequency Domain and State Space.

### **Unit 3**

Frequency response of Linear, Time invariant systems – frequency response of first-order and second-order systems – state space formulations of systems problems relating frequency response to pole location – transient response-poles and frequency response.

### **Unit 4**

Feedback systems: Systems with feedback – block diagrams – properties of feedback systems – relative stability – phase and gain margins.

### **Reference Books:**

- Cha P. D., Rosenberg J. J. and Dym C. L. – ‘Fundamentals of Modeling and Analyzing Engineering Systems’- Cambridge University – 2000
- Woods Robert L. and Kent L.- ‘Modeling and Simulation of Dynamic Systems’- Prentice Hall – 1997

  
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- Mukherjee A. and Karmakar R. – ‘Modeling and Simulation of Engineering Systems through Bondgraphs’ – Narosa – 2000
- Frederick C. – ‘Modeling and Analysis of Dynamic Systems’ – Wiley – 2001 – 3<sup>rd</sup> Edition



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Ref. No.: MU/RO/2020/ 1286

10<sup>th</sup> December 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on “Object Oriented Programming Using Java” by the Department of Computer Science & Engineering

Students are hereby informed that the Department of Computer Science & Engineering is offering a value added course on “Object Oriented Programming Using Java” from 04<sup>th</sup> January 2021. So, interested students can enroll on or before 28<sup>th</sup> December 2020. For more information, students are advised to contact Mr. Ankit Navlakha (Head, Department of Computer Science & Engineering)

  
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## OBJECT ORIENTED PROGRAMMING USING JAVA

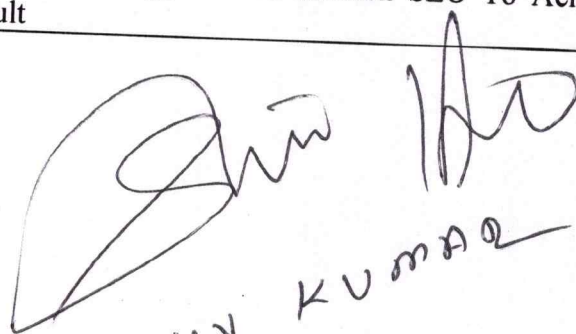
<b>UNIT-I</b>	Overview of fundamentals of object oriented programming, Introduction to Java: java history, Evolution of java, Java and internet, Java and world wide web, Java environment, Importance and Features of Java, Keywords, Constants, Variables and Data Types, Operators and Expressions, Decision Making, Branching and Looping, If-else, Switch, Operator, While, Do, For Statements, Labeled Loops, Jump Statements, Break, Continue, Return, Introducing Classes, Objects and Methods, Defining a Class, Adding Variables and Methods, Creating Objects, Constructors, Class Inheritance, Arrays and Strings: Creating an Array, One and Two Dimensional Arrays, String Array and Methods, String and String Buffer, Classes, Wrapper classes
<b>UNIT-II</b>	Inheritance, Basics Types, Using Super, Multilevel Hierarchy Abstract and Final classes, Object class, Packages and interfaces, Access protection, Extending Interfaces, Packages, Exception Handling, Fundamentals Exception Types, Uncaught Exceptions, Throw, Throw, Final, Built in Exception, Creating your own Exceptions, Multithreaded Programming: Fundamentals, Java Thread Model, Priorities, Synchronization, Messaging, Thread Class, Runnable Interface, Inter thread Communication, Suspending, Resuming and Stopping Threads, Hibernate, Principles of Object Relational Mapping, Hibernate configuration, Session Management, Flushing, Concurrency and Hibernate, Optimistic and Pessimistic Locking.
<b>UNIT-III</b>	Input/ Output, Basics, Streams, Byte and Character Stream, Predefined Streams, Reading and Writing From Console and Files, Using Standard Java Packages (Lang, Util, Jo, Net), Networking, Basics, Networking Classes and Interfaces, Using java.net Package, Doing TCP/IP and Datagram Programming, Programming with Java, J2ME architecture, Bluetooth Package Interface, Classes, Exceptions, Event Handling: Different mechanism, Event Classes, Event Listener Interfaces, Adapter and Inner Classes, Working with windows, Graphics and text, Using AWT controls, Layout managers and menus, Handling Image, Animation, Sound and video, Java Applet, Spring, Introduction of Spring Framework, Spring Architecture, Spring Framework Definition, Spring & MVC, Factory Pattern, Bean Factory.
<b>UNIT-IV</b>	J2EE: Introduction to J2EE, Building J2EE Applications, JDBC, Servlets and Web Applications, Java Server Pages and Model/View/Controller, J2EE Web Services Overview, Introduction to EJB, Session EJBs, Entity EJBs, JMS and message driven Beans, Transactions and Security, Application Servers, Web Services.
<b>Reference Books</b>	<ul style="list-style-type: none"><li>• Greenlaw Raymond and HeppEllen, Fundamentals of the Internet and the World Wide Web, TMH</li><li>• Deitel, Deitel &amp; Nieto, Internet &amp; World Wide Programming, Pearson Education</li><li>• SchildtHerbert, Java2-The Complete Reference, Tata McGraw Hill</li><li>• Elliotte Rusty Harold, Java Network Programming (Third edition)</li></ul>

  
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	<p>Different types of keywords</p> <p>How to do Analysis of keywords using Free &amp; Paid Tools</p> <p>How to find easy to rank keywords related to your website and business</p> <p>How to do Analysis of Keyword Using Chrome Extension</p> <p>How to find the Ranking Keyword Of competitor</p> <p>Selecting the right keywords for the project</p> <p>How to Know Top ranking Keywords of your sites</p> <p>How to Find hidden ranking keywords of your website</p> <p>What Is LSI Keywords : Easy Strategies To find LSI Keywords</p>
UNIT-IV	<p><b>Content Planning and Creation</b></p> <p>Content Research</p> <p>Content Structure</p> <p>Content Planning With Keywords</p>
Reference Books	<ul style="list-style-type: none"> <li>• SEO For Beginners: An Introduction To SEO Basics</li> <li>• Entity SEO: Moving from Strings to Things</li> <li>• The Art Of SEO: Mastering Search Engine Optimization</li> <li>• The Psychology Of A Website: Mastering Cognitive Biases, Conversion Triggers And Modern SEO To Achieve Massive Result</li> </ul>

  
SHIV KUMAR



  
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MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2020/ 680-A

04<sup>th</sup> August 2020

### OFFICE ORDER

**Sub.:** Value Added Course on “Project Management: The Basics for Success” by the Department of Management.

Students are hereby informed that the Department of Management offering a value added course on “Project Management: The Basics for Success” from 01<sup>st</sup> September 2020. So, interested students can enroll on or before 25<sup>th</sup> August 2020. For more information, students are advised to contact Mr. Rajesh Bhatt Sir (Head, Department of Management)

  
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5. Singh, Awadhesh Singh "GST made Simple- A Complete Guide to Goods and Service Tax in India" Centax Publication
6. Latest GST Bill 6. Background Material on Model GST Law, Sahitya Bhawan Publications, Hospital Road, Agra - 282 003.
7. Publication on GST by the Institute of Chartered Accountant of India ([www.icaai.org](http://www.icaai.org))
8. Publication on GST by the Central Board of Excise and Customs ([www.cbec.org](http://www.cbec.org))

### **Project Management: The Basics For Success**

#### **Course Objective**

The objective of this paper is to familiarize the participants with concepts, techniques and skills of project management and control and their applications in business

#### **UNIT 1:**

Concept of Project; categories of projects; project development cycle; the concept of project management; tools and techniques of project management; forms of project organizations

#### **UNIT 2:**

Project identification, project formulation and preparation; market and demand estimation; market survey; demand forecasting; technical factors – material inputs, technology, production, plant capacity, location and site; civil works, charts, layouts, work schedule;

#### **UNIT 3:**

Cost of project, means of financing, estimates of cost, financial projections, technical, economic, financial, legal and social appraisal of industrial projects;

#### **UNIT 4:**

Problems arising due to rate of discount, wage rate; treatment of taxes; social cost benefits; treatment of risk and uncertainty; sensitivity analysis and probability approach – single as well as multiple projects

#### **UNIT 5:**

Project scheduling; network techniques for resource; cost budgeting and scheduling; project management teams and coordination; monitoring and post implementation; evaluation of the project; project financing

#### **Recommended Text**

S Chaudhary, *Project Planning and Control* (New Delhi: Vikas Publishing)

B Goyal, *Project Management: A Development Perspective* (New Delhi: Deep and Deep)

### **Basics of Digital Media**

#### **Course objectives:**

1. Understand the history of computing, digital media, and the internet, along with the implications of that history and how it is told;

  
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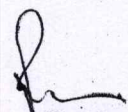
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**12<sup>th</sup> July 2020**

**OFFICE ORDER**

**Sub.:** Value Added Course on "Project Planning & Management" by Department of Management.

Students are hereby informed that Department of Management offering a value added course on "Project Planning & Management" from 1<sup>th</sup> August 2020. So, interested students can enroll on or before 31<sup>st</sup> July 2020. For more information, students are advised to conduct Mr. Rajesh Bhatt Sir (Head, Department of Management)

  
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**VALUE ADDED COURSE**  
**Project Planning and Management**

**Course Outcome:**

- The objective of this paper is to familiarize the participants with concepts, techniques and skills of project management.
- Control their applications in business.

**UNIT 1:**

Concept of project; categories of projects; project development cycle; the concept of project management; tools and techniques of project management; forms of project organizations.

**UNIT 2:**

Project identification, project formulation and preparation; market and demand estimation; market survey; demand forecasting; technical factors – material inputs, technology, production, plant capacity, location and site; civil works, charts, layouts, work schedule.

**UNIT 3:**

Cost of project, means of financing, estimates of cost, financial projections, technical, economic, financial, legal and social appraisal of industrial projects;

**UNIT 4:**

Problems arising due to rate of discount, wage rate; treatment of taxes; social cost benefits; treatment of risk and uncertainty; sensitivity analysis and probability approach – single as well as multiple projects

**UNIT 5:**

Project scheduling; network techniques for resource; cost budgeting and scheduling; project management teams and coordination; monitoring and post implementation; evaluation of the project; project financing

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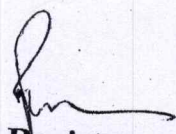
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17<sup>th</sup> Dec. 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "SEO" by Department of Computer Science & Engineering

Students are hereby informed that the Department of Computer Science & Engineering is offering a value added course on "SEO" from 15<sup>th</sup> January 2021. So, interested students can enroll on or before 09<sup>th</sup> January 2021. For more information, students are advised Mr. Ankit Navlakha (Head, Department of Computer Science & Engineering)

  
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# SEO (Search Engine Optimization)

## COURSE OUTCOMES

1. Understand the basic principles of SEO, including the role of search engines, the importance of keyword research, and the factors that influence search engine rankings.
2. Understand the different types of SEO, including on-page SEO, off-page SEO, and technical SEO.
3. Be able to conduct keyword research and use that research to optimize website content for search engines.
4. Understand the principles of off-page optimization, including link building, social media optimization, and online reputation management.
5. Be able to use SEO tools such as Google Analytics, Google Search Console, and Moz to track website performance and optimize for search engines.

UNIT-I	<b>Introduction To SEO:-</b> What is a search engine?, How search engines works?, What Is SEO?, What is the need of SEO, History Of SEO, How SEO Works, What is Google Boat (Google Crawler), Types Of SEO technique, What Is Google's SEO Algorithm updates?, How to create planning and strategies for SEO, What is SEO tools and why we need it?
UNIT-II	<b>Technical SEO:-</b> What Is Technical SEO, Technical SEO Ranking factors, Type of meta tags and their effect on SEO, Website architecture Optimization, Breadcrumbs, Permalinks optimization, Canonicalization, What Is Robots.txt, File & How to create it, Setup of CDN, Installation of SSL, How to Improve Website Performance & Speed using Plugin, How to perform the PageSpeed Test, XML and HTML sitemap creation and optimization, How to Add and verify a website in Google Console, Google Analytics setup and monitoring
UNIT-III	<b>Keyword Research Process</b>  Keyword research is the heart of SEO. Without the right keyword at the right time, you cannot rank a website in SERP.  The following topics will be covered in Keyword Research.  What Is Keyword  The impotence of Keyword Research?

  
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Ref. No.: MU/RO/2020/ 705

11<sup>th</sup> August 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Solar Energy Products" by Department of Electrical Engineering

Students are hereby informed that Department of Electrical Engineering is offering a value added course on "Solar Energy Products" from 14<sup>th</sup> September 2020. So, interested students can enroll on or before 31<sup>st</sup> August 2020. For more information, students are advised Dr. V. Siva Brahmaiah Rama (Head, Department of Electrical Engineering)

  
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**Mewar University, Gangrar, Chittorgarh**  
**Department of Electrical Engineering**  
**Value Added Course on Solar Energy Products**  
**Course Code: VAC-EE-1(2020-21)**

**Course Outcomes:-**

At the end of this course, students will able to

1. To design solar photovoltaic power generating units in various modes.
2. To Design of Solar Water Heater & Installation
3. To Design of various types of Solar Based Lighting Products
4. To Design of Solar cooking
5. How to installation of roof top solar system

**UNIT -1 –Principle of Solar Photovoltaic System**

Introduction, Sun movement over the day, shadowing effects, Photovoltaic Cell. Advantages & disadvantages of photo-voltaic conversion. Use of solar cell in various instruments. Photo-voltaic array & its connections, arrangements of array according to the voltage. Module & its connections. Faults & their effects in photo-voltaic cell, array & module (connection of cell, connection of array, connection of module)

**UNIT -2 - Solar water Heater**

Principals of solar thermal systems, Technology's in solar water heating systems, salient features of solar water heating systems, Types of solar heating systems available, Application of solar water heating systems, installing of solar water heating systems, advantages and disadvantages solar water heating systems.

**UNIT-3 - Solar lighting system**

Description of main parts of solar lighting system: Solar Lantern, street light, home light, Charge controller, Storage battery, Inverter, Laminar, Maintenance of solar lighting system, types and advantages of solar outdoor lighting Comparative study of Conventional lighting system & solar lighting system

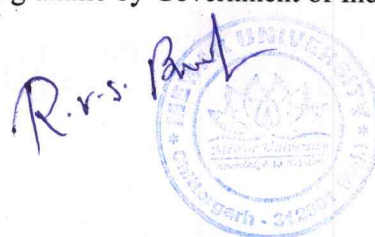
**UNIT – 4 - Solar cooking**

Benefits of solar cooking, advantages and disadvantages solar cooking, principals and application of solar cooking, solar wall applications, solar safe drinking water systems, solar air heating drying systems, solar powered water pumps and salient features, types of solar powered pumps, advantages, and limitations of solar powered pumps, maintenance and tracking systems.

**UNIT – 5 – Module 4: Roof Top**

Technical Standards and Specification, Types of Roof top, Capacity Limiting, Technical Considerations, Standards and Specifications, Grid Connected Rooftop Solar System, Benefits from the Grid Connected Rooftop Solar System, Types of metering arrangements, Rooftop Solar Programme by Government of India and Objectives of the Programme.

  
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Ref. No.: MU/RO/2020/721

16<sup>th</sup> August 2020

**OFFICE ORDER**

**Sub.:** Value Added Course on "Vocal Music" by Department of Performing Art under Humanities.

Students are hereby informed that Department of Performing Art under Humanities is offering a value added course on "Vocal Music" from 4<sup>th</sup> September 2020. So, interested students can enroll on or before 1<sup>st</sup> September 2020. For more information, students are advised Prof. (Dr.) Chitrlekha Singh, Dean, Humanities, Fine Arts, Yog & Astrology

  
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## Vocal Music

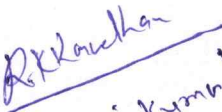
### Course Outcome

- 1-Students will be able to demonstrate the understanding and use of knowledge as a means for creating cultural awareness.
- 2-Students will be able to create, analyze and synthesize music as a means of supporting developing careers in music, teaching and performance.
- 3-Student will be able to compose music that displays creativity or ideas.
- 4-Students will be able to discover the relationship between music and the other allied arts.
- 5-Students will be able to understand the social and artistic movements.

### Syllabus Details

SN.	Duration of Hours	Topics
1	5 Hrs	<ul style="list-style-type: none"><li>• Swaras</li><li>• Sapthak</li></ul>
2	5 Hrs	<ul style="list-style-type: none"><li>• ShudhSwaras</li><li>• KomalSwara</li><li>• TivraSwara</li><li>• Swara Patterns</li></ul>
3	5 Hrs	<ul style="list-style-type: none"><li>• Patterning and skill development</li><li>• SwarPehechan</li><li>• Alankar</li></ul>
4	5 Hrs	<ul style="list-style-type: none"><li>• SwaraSadhana</li><li>• Playing Swara Patterns in different Rhythm patterns</li></ul>
5	5 Hrs	<ul style="list-style-type: none"><li>• LayakePrakar</li><li>• Taal</li><li>• LayabaddhAlankar</li></ul>
6	10 Hrs	Film songs  Medium Paced, Limited Range, energetic songs to enable project and open out the tone and basic mechanics of the voice.

  
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Dr. Rajesh Kumar Kanwar

