

JAGANNATH
UNIVERSITY

Department of Agriculture

Circular

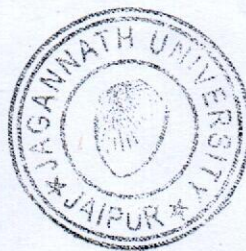
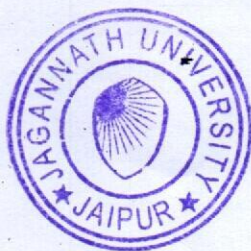
No./Ag/JNU/SP-2

Dated: 27.06.2019

It is inform to all the Odd Semester students of B.Sc.(Hons) Agriculture for registration of Value Added Courses(VAC). The registration will be starting from 01/07/2019 to 11/07/2019. The classes will be starting from August 08, 2019. The students can contact to Dr S.L.Sharma for further queries.

The following courses are offering for respective semester-

- (1) Organic Livestock Farming Benefits, Principles and Challenges. -(III Semester)
- (2) Epidemiology and Disease Management Plant-(V Semester)
- (3) Conservation Agriculture for Enhancing Productivity and Resource use Efficiency in Major Cropping Systems. -(VII Semester)



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Faculty of Science
Deptt of Agriculture

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Jagannath University Jaipur is offering Value Added Certificate Courses that are being conducted by various departments to complement students' knowledge and skills in their field of study. Courses offered are chosen based on current trends, relevance and value in the job-market.

Duration: 32 Credit hours

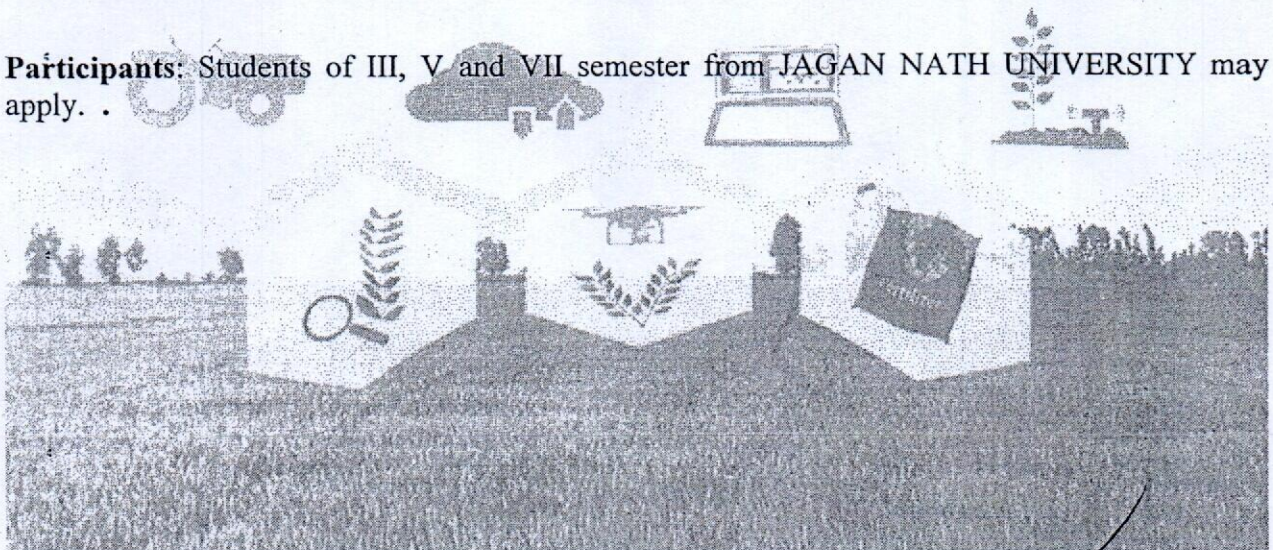
Timings: 04:30 pm to 05:30 pm

Date of Commencement: 08 August, 2019

Registration & other details: Registration will open from **01.07.2019** to **11.07.2019** through a link on website www.jagannathuniversity.org Students should contact **Prof. S. L. Sharma** (I/c value added courses programme) for further queries.

Course Certificate: Certificate mentioning acquired grade will be provided as per performance in test at the end of Course.

Participants: Students of III, V and VII semester from **JAGAN NATH UNIVERSITY** may apply.



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Semester	III
Course Title	VACAG-302 Organic Livestock Farming Benefits, Principles and Challenges
Objectives	<p>(i) To fill the existing knowledge gap with regard to the sustainability, challenges, and perspectives of the organic livestock sector, as well as regarding its contribution to the agrifood system's sustainability. Moreover, this study is also aimed at-</p> <p>(ii) Providing strategies and insights that will help stakeholders and policy makers to improve the sustainability of both the organic livestock sector and that of the whole food system.</p>
Course Details	<p>Introduction to organic livestock farming. Historical development of organic livestock farming. Characteristics of organic livestock farming: Breeds and Breeding, Feeds and Feeding, Housing, Disease prevention, Treatment. Challenge of organic livestock farming in India conditions: Factors influencing organic livestock farming success: Regulation and certification bodies, Animal nutrition : Legislation and market.</p> <p>Opportunity for organic livestock farming in India accepted by consumers. Encourage biodiversity. Benefits of organic livestock farming: Environment, Animal health, Nutrient cycling, Weed control, Preparing the ground for cropping. Organic certification: Major Certifying bodies which monitor the standards for organic production & having world wide acceptance are- EU Regulation(1804/1999), Organic Food Products Acts (OFPA) of USA, Draft Guidelines of Codex/ WHO/FAO, International Federations of Organic agricultural Movements(IFOAM).</p> <p>Steps required for certification. National standards for organic livestock production in India: Landscape, Fertility policy, Animal husbandry management, Length of the conversion period, Brought in Animal, Breeds and Breeding, Mutilations, Animal nutrition, Veterinary medicine, Transport and Slaughter.</p>
Course Incharge	Mr. Ganesh Ram Jat



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Semester	V
Course Title	VACAG-502 Plant Epidemiology and Disease Management
Objectives	<ul style="list-style-type: none"> • To learn a thorough understanding of important principles and concepts of plant epidemiology • To analysis diseases severity. • To learn diseases management • To analysis of host and pathogen interaction <p>To learn forecasting of diseases</p>
Course Details	<p>Modules 1 (10 Hrs) Introduction, definition, concept and history of epidemiology. Diagnosis of plant diseases. Methods of plant disease measurement, host growth stages, disease severity-incidence relationships, diagram and field keys, field sampling. Environmental influence on disease: Influences on pathogen ecology vs. influences on host; Foliar diseases, soil borne diseases and post-harvest diseases. Disease management- basic principles, biological, chemical and cultural disease management.</p> <p>Modules 2(10 Hrs) Inoculum Potential: Diseases development, penetration of the host, Interaction between host and pathogen. Pathogen DISPERSAL: Pathogen and Transport Microbiology of the atmosphere Aerial and soil pathogens, disease gradients, dissemination, quantifying inoculum of airborne and soil borne pathogens. Management With Chemicals Pathogen insensitivity to chemical and coping with fungicide resistance.</p> <p>Modules 3(Hrs marks) Temporal analysis of epidemic - Description and comparison of disease progress curves Disease models, disease progress and rates Dispersal gradients of aerially dispersed pathogens. Genetic basis of the epidemics: Epidemiologic and genetic concepts, partial resistance, stabilizing selection, aggressiveness, fitness, multiline, and varietal mixtures. Forecasting and simulation of epidemic -Method of diseases forecasting, Diseases triangle - pathogen factor, host factor and environment factor, Computer based diseases forecasting .</p>
Course Incharge	Prof. (Dr.) O. P. Sharma



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Semester	VII
Course Title	VACAG-702 Conservation Agriculture Practices for Enhancing and Resources use Efficiency in Major Cropping System
Objectives	<ul style="list-style-type: none"> • To study the different cropping System • To study Conservation Agriculture procedures • To analysis mitigation of climate change effect • To learn manage natural and economical resources • To study sustainable farming and organic farming
Course Details	<p>Cropping system: Definition, Principles and basic concepts. Classification of cropping system - Mono cropping, intensive cropping, multiple cropping, mixed cropping. Major cropping systems prevailing in India and Rajasthan for different agro eco systems. Complementary and competitive interaction in different cropping system - light, nutrient, water and weed. Cropping system management : agronomic requirement for crops and cropping system selection of crops and varieties, tillage and land shaping, plant population and crop geometry.</p> <p>Cropping system management: agronomic requirement for crops and cropping system - water management, soil fertility management and plant protection. Indices for evaluation of cropping system - land use, yield advantage and economy farming system: definition, principles and concepts and factors influencing choice and size of enterprises. Scope and advantages of integrated farming system. Allied enterprises for wetland, irrigated upland and dryland - selection and management and their interaction. .CSI –Definition, characteristics and impact of climate on the different cropping system</p> <p>Organic farming –definition, Procedure, organic certification. Precious farming. Resource recycling in integrated farming system.. Integrated Farming System evaluation indicators Integrated farming system - models for wetland, irrigated upland and dry land eco system. Cost reduction technologies and non monetary inputs in integrated farming system. LEIA and HEIA - principles and concepts and Labour management in integrated farming system. Conservation agriculture and environmental impact of integrated farming system.</p>
Course In charge	Prof. (Dr.) S.L. Sharma



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SYLLABUS

Name of Course- **VACAG-302 Organic Livestock Farming Benefits, Principles and Challenges**

Objective: The objectives of this course-

- (i) To fill the existing knowledge gap with regard to the sustainability, challenges, and perspectives of the organic livestock sector, as well as regarding its contribution to the agrifood system's sustainability. Moreover, this study is also aimed at-
- (ii) Providing strategies and insights that will help stakeholders and policy makers to improve the sustainability of both the organic livestock sector and that of the whole food system.

Course content:

Module 1 (10Hr)

Introduction to organic livestock farming. Historical development of organic livestock farming. Characteristics of organic livestock farming: Breeds and Breeding, Feeds and Feeding, Housing, Disease prevention, Treatment. Challenge of organic livestock farming in India conditions. Factors influencing organic livestock farming success: Regulation and certification bodies, Animal nutrition : Legislation and market.

Module 2 (12Hr)

Opportunity for organic livestock farming in India accepted by consumers. Encourage biodiversity. Benefits of organic livestock farming: Environment, Animal health, Nutrient cycling, Weed control, Preparing the ground for cropping, Organic certification: Major Certifying bodies which monitor the standards for organic production & having world wide acceptance are- EU Regulation(1804/1999), Organic Food Products Acts (OFPA) of USA, Draft Guidelines of Codex/ WHO/FAO, International Federations of Organic agricultural Movements(IFOAM).

Module 3 (10Hr)

Steps required for certification. National standards for organic livestock production in India: Landscape, Fertility policy, Animal husbandry management, Length of the conversion period.

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Brought in Animal, Breeds and Breeding, Mutilations, Animal nutrition, Veterinary medicine, Transport and Slaughter.

Outcome:

Organic livestock farming (especially its organic principles than regulations) may be a useful strategy to overcome the challenges of the agricultural sector (sustainability, food security, and food safety) while matching with consumers' tendencies (animal welfare, health, environmental protection, etc.). Furthermore, organic livestock farming could be also an interesting strategy for the eternal rural development issue and the farms' decreasing profitability. However, the combination of complying with organic regulations and objectives and principles of organic farming while increasing overall sustainability is not an easy task. Finally, and more urgently, special attention must be paid on the marketing strategies of organic products (organic plus products and marketing channels) since this is the main constraint of the sector, and it is the point where there are more possibilities for improvement for both farm profitability and overall sustainability of the food system.

References:

FiBL, IFOAM. The World of Organic Agriculture. Statistics & emerging trends 2015. Frick and Boon: FiBL and IFOAM. 303 p.

Sánchez J. Las macromagnitudes agrarias. In: La Agricultura y la ganadería extremeñas. Informe 2012. Badajoz: Caja de Badajoz; 2013. p. 37-52

Eisler MC, Lee MRF, Tarlton JF, Martin GB, Beddington J, Dungait JAJ, Greathead H, Liu J, Mathew S, Miller H, Misselbrook T, Murray P, Vinod VK, Van Saun R, Winter M. Agriculture: Steps to sustainable livestock. Nature. 2015;507:32-34. DOI: 10.1038/507032a.

De Vries M, van Middelaar CE, de Boer IJM. Comparing environmental impacts of beef production systems: A review of life cycle assessments. DOI: 10.1016/j.livsci. 2015.06.020.

Gomiero T, Pimentel D, Paoletta MG. Environmental impact of different agricultural management practices: Conventional vs. organic agriculture. Critical Reviews in Plant Sciences. 2011;30:95-124. DOI: 10.1080/07352689.2011.554355.



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Course Fee: Nil

Faculty of Science
Department of Physical Sciences

Duration: 36 Hrs.

Value Added Course: Fundamentals of Natural Products Chemistry

Course Code: VFNPC

Eligibility: Science Undergraduate

GRADED CERTIFICATE WILL BE PROVIDED AFTER COMPLETION OF THE COURSE

Class Time: After regular classes

Date of Commencement: After 07 days from semester beginning

Course Outcomes: At the end of the course, learners will be able

- ❖ To understand about terpenoids, carotenoids, alkaloids, steroids and flavonoids, identification and their isolation process.
- ❖ To fulfill the national and international needs regarding pharmaceutical industries those are working in natural products.
- ❖ To get more chances of employment in pharmaceutical Industries.

Expert Name: Dr. Anil Kumar Sharma

Contact for Registration

Head, Department of Physical Sciences, Faculty of Science,

Jagan Nath University, Jaipur, Rajasthan INDIA

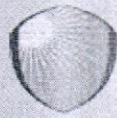
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Course Fee: Nil

Duration: 30 Hrs.

Faculty of Science
Department of Physical Sciences

Value Added Course: Fibre Optics and Optical Communication System

Course Code: VFOOC

Eligibility: Science Undergraduate

GRADED CERTIFICATE WILL BE PROVIDED AFTER COMPLETION OF THE COURSE

Class Time: After regular classes

Date of Commencement: After 07 days from semester beginning

Course Outcomes: At the end of the course, learners will be able to:

- ❖ Understand the role of cladding in an optical fibre.
- ❖ Learn the concept of Acceptance angle.
- ❖ Explain the phenomena of skip distance.
- ❖ Describe how fibre optic communication system works.
- ❖ Describe applications of optical fibres in daily life.

Expert Name: Dr. Amit Goswami

Contact for Registration

Head, Department of Physical Sciences, Faculty of Science,

Jagan Nath University, Jaipur, Rajasthan INDIA

Ph: 0141-3020516



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Course Fee: Nil

Duration: 33 Hrs.

Faculty of Science
Department of Physical Sciences

**Value Added Course: Application of Python in various topics in
Mathematics**

Course Code: VAPM

Eligibility: Science Undergraduate

GRADED CERTIFICATE WILL BE PROVIDED AFTER COMPLETION OF THE COURSE

Class Time: After regular classes

Date of Commencement: After 07 days from semester beginning

Course Outcomes: At the end of the course, learners will be able to:

- ❖ Understand the process of installing the spyder (python tool).
- ❖ Understand the basics commands and syntax of python .
- ❖ Able to concept of tuple, records, list and other functions of Python.
- ❖ Understand the Matplotlib library
- ❖ Solving the basic mathematics problems with help of Python.

Expert Name: Dr. Vivek Kumar Sharma

Contact for Registration

Head, Department of Physical Sciences, Faculty of Science,

Jagan Nath University, Jaipur, Rajasthan INDIA

Ph: 0141-3020516



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Faculty of Science

Department of Physical Sciences

Value Added Course: Fundamentals of Natural Products Chemistry (VFNPC)

Course objectives: The course will enable the student

- To understand about terpenoids, carotenoids, alkaloids, steroids and flavonoids.
- To learn their isolation process.
- To learn the identification test for different phytochemicals class.
- To fulfill the national and international needs regarding pharmaceutical industries those are working in natural products.

Course Content:

Module-I:

Lecture 12

Terpenoids and Carotenoids: Classification, occurrence, isoprene rule, isolation and Hands on training based practices. use of spray reagents.

Module-II:

Lecture 12

Alkaloids: Definition, physiological action, classification, occurrence, identification test, isolation. Hands on training based practices. use of spray reagents.

Module-III:

Lecture 12

Steroids and Flavonoids: Classification, occurrence, tests for detection, isolation and Hands on training based practices. use of spray reagents.

Books Recommended:

- i. Organic Chemistry: Vol.2. IL Finar. ELBS.
- ii. Introduction to Flavonoids, B.A. Bohm. Harwood Academic Publisher.
- iii. New trends in Natural Product Chemistry, Atta-ur-Rahman and MI Choudhary. Harwood Academic Publisher.



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Course Outcomes:

At the end of the course, a student will be able

1. To understand about terpenoids, carotenoids, alkaloids, steroids and flavonoids, identification and their isolation process.
2. To fulfill the national and international needs regarding pharmaceutical industries those are working in natural products.
3. To get more chances of employment in pharmaceutical Industries.

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Faculty of Science

Department of Physical Sciences

Value Added Course: Fibre Optics and Optical Communication System
(VFOOC)

Course Objective

- To understand the concept of TIR.
- To know the mechanism of light propagation in an optical fibre.
- To understand the concepts of Numerical aperture.
- To understand the applications of optical fibre.
- The students will be able to apply the concepts learnt to several real world problems.

Course Content:

Module 1

(10 Hours)

Fibre optics: Optical fibre, necessity of cladding, Total internal reflection, Propagation of light through an optical fibre, Acceptance angle, Refractive index, Fractional refractive index change, Numerical aperture, Skip distance, Modes of propagation, Types of rays, Uses of optical fibres.

Module 2

(10 Hours)

Classification of optical fibres: Single-mode step index fibre, Multi-mode step index fibre, Graded index fibre, Materials for optical fibre, V-number, Fabrication of optical fibre, Losses in optical fibre, Distortion, Bandwidth, Characteristics of optical fibres, Splicing.

Module 3

(10 Hours)

Optical Communication system: Illumination and image transmission, Fibre optic communication system, Transmitter, Receiver, Amplifier, Local area network, Long haul communication network, Merits of optical fibres, Fibre optic sensors, Advantages of optical communication.

At the end of the course, the student will be able to:

- CO1: Understand the role of cladding in an optical fibre.
CO2: Learn the concept of Acceptance angle.
CO3: Explain the phenomena of skip distance.
CO4: Describe how fibre optic communication system works.
CO5: Describe applications of optical fibres in daily life.

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Reference Books:

1. Brij Lal, M. N. Avadhanulu and N. Subrahmanyam, A Text Book of Optics, 25/e, S. Chand Publishing, 2012, ISBN: 9788121926119.
2. Ajoy Ghatak, Optics, 6/e, McGraw-Hill, 2017, ISBN: 9780073380483.
3. Subir Kumar Sarkar, Optical Fibers and Fibre Optical Communication Systems, 6/e, S. Chand Publishing, 2000, ISBN: 9788121914598.

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Faculty of Science

Department of Physical Sciences

Value Added Course: Application of Python in various topics in Mathematics (VAPM)

Course Objective:

In order to help the students in exploration of mathematical concepts through activities and exploration, The computer language "Python" is introduced. Students find better perceptions of the classical courses like Linear Algebra, Complex Analysis, Numerical Analysis and etc,. This course aims to teach scientific programming language Python using examples from mathematics particularly basics of numerical and symbolic computations are among the topics covered.

Course Outcomes:

After completion of this course student will be able to:

- Understand the process of installing the spyder (python tool).
- Understand the basics commands and syntax of python .
- Able to concept of tuple, records , list and other functions of Python.
- Understand the Matplotlib library
- Solving the basic mathematics problems with help of Python.

Course Content:

Module 1

(10Hr)

Installing " Spyder" on system, working directories and panel, Working with Numbers in Python, Working with List or tuple in Python, Creating graphs with Matplotlib, Exploring Quadratic Function Visually, Summing a Series, Using Venn Diagrams to Visualize Relationships Between Sets, Verification of Continuity at a point, Area between two curves, Finding the length of the curve

Module 2

(8 Hr)

Complex Arithmetic, functions in Python, Inverse, Determinant and Eigenvalues in Python, Transpose and Upper/Lower Triangular parts in Python, Solving Linear Systems in Python.

Module 3

(15 Hr)

Plotting of Scalar and Vector fields, Mathematical Model: Interest Rates, Mathematical Model: Growth of a population – Exponential Model, Mathematical Model: Logistic Growth, Mathematical Model: A Simple Pendulum, Mathematical Model: Spreading of a Disease



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Books Recommended:

- Learn Python the Hard Way: 3rd Edition, Zed A. Shaw, Addison Wesley.
- Python Programming: An Introduction to Computer Science (3rd Edition), John M. Zelle.
- Python Cookbook: Recipes for Mastering Python 3 (3rd Edition).
- Introduction to Machine Learning with Python: A Guide for Data Scientists (1st Edition).

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Faculty of Management

OFFICE CIRCULAR

Date: 10/07/2019

The following value added course are being introduced in management programs in Academic Session July – Dec. 2019:

BBA I Semester: VFOMB 01: Database Management

BBA III Semester: VFOMB 03: Quantitative Aptitude and Training

BBA V Semester: VFOMB 05: Basic Course in Social Entrepreneurship

MBA I Semester: VFOMM01: Advance Excel

MBA III Semester: VFOMM 03: Sustainable Development in Management

Students may contact coordinator faculty of the respective programs for Registration.

Vaishali
Dr Vaishali
Dean / HOD
Faculty of Management
Jagannath University

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VFOMB 01: Data base Management

Course Objective:

1. To understand the different issues involved in the design and implementation of a database system.
2. To develop an understanding of essential DBMS concepts such as: database security, integrity, concurrency, distributed database, and intelligent database, Client/Server (Database Server), Data Warehousing.
3. To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.

COURSE OUTCOMES

At the end of the course, a student will be able to understand

1. For a given query write relational algebra expressions for that query and optimize the developed expressions
2. For a given specification of the requirement design the databases using E-R method and normalization.
3. For a given specification construct the SQL queries for Open source and Commercial DBMS -MYSQL, ORACLE, and DB2.

Course Contents


Module: I

INTRODUCTION TO DBMS: Overview and History of DBMS. File System vs. DBMS .Advantage of DBMS Describing and Storing Data in a DBMS. Queries in DBMS.Transaction management and Structure of a DBMS.

Module: II

ENTITY RELATIONSHIP MODEL: Overview of Data Design Entities, Attributes and Entity Sets, Relationship and Relationship Sets. Features of the ER Model-Key Constraints, Participation Constraints, Weak Entities, Class Hierarchies, Aggregation, Conceptual Data Base, and Design with ER Model-Entity vs Attribute, Entity vs Relationship Binary vs. Ternary Relationship and Aggregation vs ternary Relationship Conceptual Design for a Large Enterprise.



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Module: III

RELATIONAL MODEL: Relationship Algebra Selection and Projection, Set Operations, Renaming, Joins, Division, Relation Calculus, Expressive Power of Algebra and Calculus.

Module: IV

SQL AND TRIGGERS: The Forms of a Basic SQL Query, Union, Intersection and Except, Nested Queries, Correlated Nested Queries, Set-Comparison Operations, Aggregate Operators, Null Values, Triggers and Active Databases.

Module: V

NORMAL FORMS AND CONCURRENCY CONTROL: Normalization using Functional Dependency, Multivalued dependency and Join dependency. Concurrency Control: Lock Based *Protocols; Time Stamped Based Protocols, Deadlock Handling.*

Recommended Reference Books:

- 1 Date C J, "An Introduction to Database System", Addison Wesley.
- 2 Korth, Silbertz, Sudarshan, "Database Concepts", McGraw Hill
- 3 Elmasri, Navathe, "Fundamentals of Database Systems", Addison Wesley
- 4 Leon & Leon, "Database Management System", Vikas Publishing House.
- 5 Bipin C. Desai, "An introduction to Database Systems", Galgotia Publication
- 6 Ramakrishnan, Gehrke, "Database Management System", McGraw Hill
- 7 Kroenke, "Database Processing: Fundamentals, Design and Implementation", Pearson.

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VFOMB 03: Quantitative Aptitude & Training

Course Objectives:

The course will enable the student to

1. Have a fundamental understanding of aptitude and reasoning
2. Enhance the problem solving skills
3. Improve basic mathematical skills

Course Outcomes:

After completing this course, the student will:

1. Have a fundamental level of understanding of aptitude and reasoning.
2. Acquire satisfactory competence in use of aptitude and reasoning
3. Solve campus placements aptitude papers

Course Contents:

MODULE I

Number & Letter Series and Number & Letter Analogies

Different categories of series, Letter series, Typical relationships between numbers, coding and decoding, odd man out

MODULE II

Clocks and Calendars

Angles between Hour hand and the minute hand, Leap year and nonleap year, Counting the number of odd days

MODULE III

Decision Making and and Blood Relations

Decision making in basic conditions and alternate conditions different series of relationships and determining the relationship between two people



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MODULE IV

Input and Output

Desired order of output, Methodical transformation through single element movement and interchange of elements

MODULE V

Time & Distance and Direction Sense

Distance between initial points and final points, determine speed, distance traveled through time and distance formula

Text Books:

1. **Quantitative Aptitude for Competitive Examinations R S Agrawal S Chand Publication**
2. **Quantitative Aptitude Servesh K Verma Arihant Publication**

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VFOMB 05: Basic Course in Social Entrepreneurship

Course Objectives:

The course will enable the student to

4. Have a fundamental understanding of Social Entrepreneurship
5. Have a basic understanding of the means to raise a social enterprise
6. Understand the emerging career opportunities and New Directions in the field

Course outcomes:

After completing this course, the student will :

4. Have a fundamental level of understanding relating Social Entrepreneurship
5. Imbibe deep knowledge on the means for establishing Social Enterprise
6. Develop an understanding of the role and importance of Social Enterprise in the Society

Course Contents

MODULE I Introduction

Lectures - 6

Introduction to Social Entrepreneurship , Need & Reasons for growth of social entrepreneurship, Similarity & Difference from Non-Profit Organization & Social Service Providers

MODULE II Relationship of Social Enterprise

Lectures - 6

Relationship of social enterprise with other companies and markets, Legal structure of social enterprise , Future & Impact of Social Enterprise on CSR & Non-Profit Social Service.

MODULE III Raising a Social Enterprise

Lectures - 6

Choosing the right ideas for Social Enterprise, Formulation of business plan, Funding decision for social enterprise, Concept of a Social Impact Investor

MODULE IV Social Enterprise Business Models

Lectures - 6

Financial Risk Analysis , Source of Funds , Scale -Up Models , Exit Strategy for Social Enterprise.

MODULE V Directions for Social Entrepreneurs

Lectures - 6



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Ecosystem for Social Enterprise, Global Competition in Social Enterprise Development ,Successful case studies of social entrepreneurship ,New Directions for Social Enterprise , Emerging Career Opportunities.

Text Books:

2. Social Entrepreneurship :What Everyone Needs To Know , David Bornstein & Susan Davis , Oxford University Press

Suggested Readings:

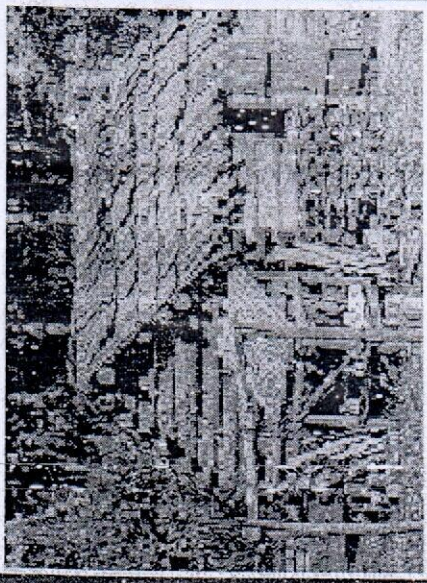
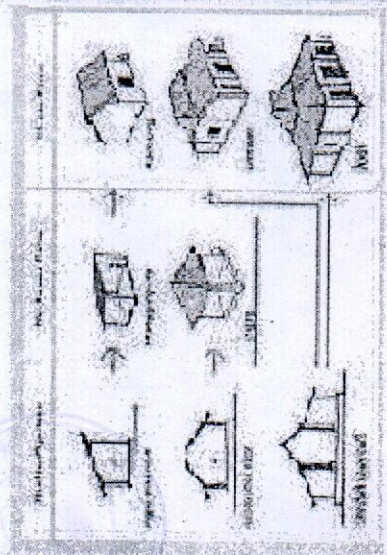
5. Social Entrepreneurship in India : Quarter Idealism & a pound of Pragmatism , Madhukar Shukla , Sage Publication
6. Building Social Business : The New Kind of capitalism that serves Humanity `s Most Pressing Needs , Md.Yunus with Karl Weber ,Perseus Book Group
7. The Unfinished Social Entrepreneur , Jonathan .C.Lewis , Red Press Publication

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Vernacular architecture is a term used to categories methods of construction which use locally available resources and traditions to address local needs. Vernacular architecture tends to evolve over time to reflect the environmental, cultural and historical context in which it exists. It has often been dismissed as crude and unrefined, but also has proponents who highlight its importance in current design. It can be contrasted against polite architecture which is characterised by stylistic

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BASICS OF VERNACULAR ARCHITECTURE

VALUE ADDED COURSE

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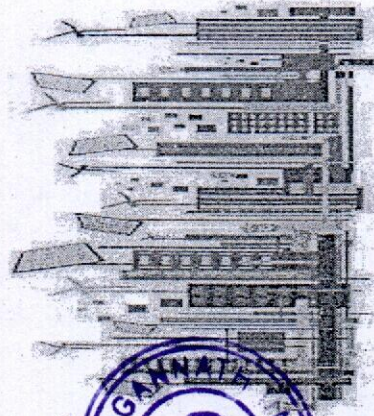
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GREEN BUILDING

Green building practices promote the construction of buildings that are healthier for the occupants and healthier for the environment. Sustainable or "green" building practices can reduce the tremendous impact that building design, construction and maintenance have on both people and the environment.

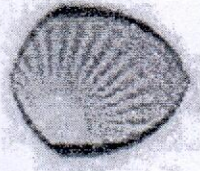
IMPACTS-

- Environmentally effective use of building materials
- Lower electric and water utility costs
- Enhanced physical and emotional health, increased



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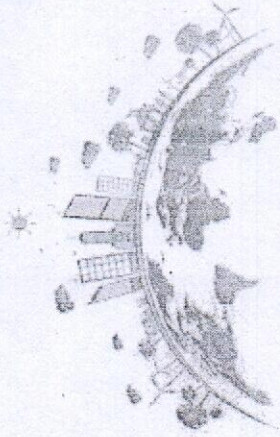
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CONCEPT OF GREEN BUILDING & IT'S APPLICATION

VALUE ADDED COURSE



Architectural Acoustics:
Illustrated translates the
quantitative and qualitative
content of acoustics into the
graphic language of architecture.
This highly-visual guide
includes over 350 illustrations
that outline the physics of sound
and the best design practices for
limiting or mitigating noise in
buildings by using the latest in
materials and techniques

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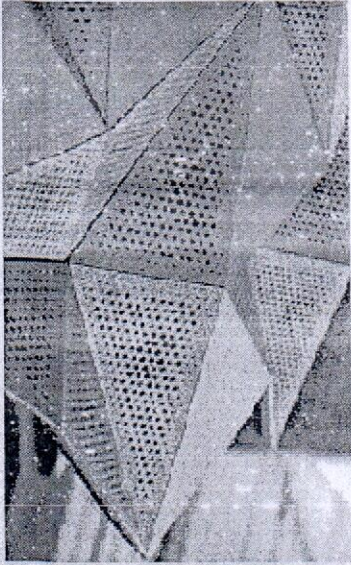
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PRINCIPLES OF ARCHITECTURAL ACOUSTIC

VALUE ADDED COURSE



Sustainable architecture:

Sustainable Architecture is architecture that seeks to minimize the negative environmental impact of buildings by efficiency and moderation in the use of materials, energy, and development space and the ecosystem at large. Sustainable architecture uses a conscious approach to energy and ecological conservation in the design of the built environment.

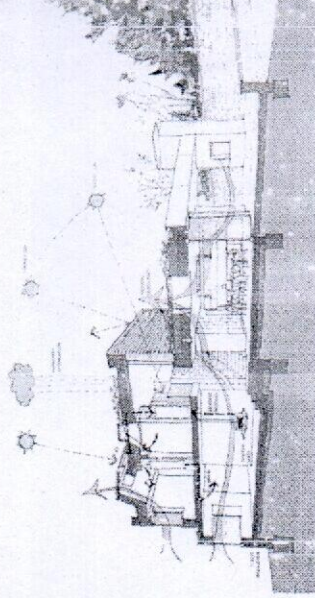


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SUSTAINABLE ARCHITECTURE



VALUE ADDED COURSE

Basics of Vernacular Architecture

Subject code VAC001

Objective

- The subject looks at specific vernacular architectural communities of India.
- Identifies and interprets specific local, regional, and national vernacular traditions from India.
- Develops a broader sense of understanding of the relationship between architecture, environment and culture.

Outcome

After the completion of this course student will be able to

- Understand the various building techniques for different regions
- Classify the building materials of different regions and build according to the regions requirement.

Module 1(5hr) :Introduction to the field of Vernacular Architecture Defining and differentiating vernacular architecture from contemporary architecture, Scope of Vernacular Architecture in Indian Context , Factors Influencing Vernacular Architecture, Building Material and Construction Techniques in Indian Vernacular Architecture, Vernacular Architecture in 21st Century

Module 2(5 hr) : Vernacular Architecture of Rajasthan Banni Community and their Bhunga House from Rajasthan, Brahmin Caste and their Havelis, Rajputs and their Havelis , Hindu Merchants and their Havelis from Rajasthan, Shekawati Haveli of Rajasthan, Construction techniques and materials of the region.

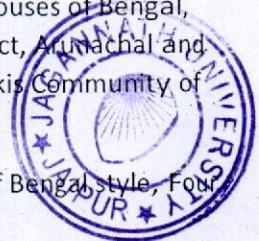
Module 3(5 hr): Vernacular Architecture of Gujarat Rathva Tribe of Gujarat ,Chodri Tribe, Sociology and Planning of North Gujarat Sociology and Planning of Rural South Gujarat , Sociology and Planning of Saurashtra , Sociology and Planning of Muslim Community in Gujarat, Woodwork Details of Gujarat

Module 4(5 hr): Vernacular Architecture in the Eastern Hills Rural Villages and Houses of Bengal, Khasi community of Meghalaya Bodo Kachari tribe, Adi Gallong folk of Sian district, Arunachal and their settlement pattern , Naga house , Morung of Naga Community , ThadouKukis Community of Manipur

Module 5(5 hr): Vernacular Architecture of Bengal Eight Roof House Structure of Bengal style, Four Roof House Structure of Bengal style, Bunglow Construction.

Module 6(5 hr): Vernacular Architecture of the North Regional topography, local climate, settlement pattern, TOQ construction, DhajjiDiwari Construction, local material. Vernacular Architecture of the South Regional topography, local climate, variation in settlement pattern and architecture in different part of the region

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REFERENCE BOOKS FOR BASIC OF VERNACULAR ARCHITECTURE

1. Architecture of the Indian desert , Kulbushan Jain & Meenakshi Jain. Aadi Centre, Ahmedabad
2. The Royal Palaces of India , George Michell, Thames and Hudson Ltd., London
3. Chettiar Heritage, S.Muthiah, Meenakshi Meyappan, Visalakshmi RAMASWAMY, Lokavani-Hallmark Press Pvt. Ltd., Chennai
4. Encyclopaedia of Vernacular architecture of the World, Cambridge University Press
5. Havali – Wooden houses & mansions of Gujarat, V.S.Pramar, Mapin Publishing Pvt. Ltd., Ahmedabad
6. The Tradition of Indian architecture – Continuity & Controversy – Change since 1850, H.R.Tillotsum, Oxford University Press, Delhi
7. VISTARA – The architecture of India , Carmen Kagal. Pub: The Festival of India, 1986.
8. House, Form & Culture , Amos Rappoport, Prentice Hall Inc, 1969.
9. Traditional buildings of India , Ilay Cooper, Thames and Hudson Ltd, Londo.

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Name of Course: Concept of green building & its Applications

Course Code: VDC 002

Syllabus

Objective

- To develop the understanding of concept of sustainable development in students.
- To develop the sincere concern about the impacts of the urbanization on the ecosystem.
- To lay emphasis on features and characteristics of a green building.
- To understand the role of green buildings helping in sustainability, environment & resource protection.
- To provide awareness and introduction to the clearance and certification system adopted in India.

Outcome:

After completion of this course student will be able to,

- Understand the concept of sustainable development and design environment friendly structures.
- Understand about the resource and energy consumptions.
- Understand about the clearance and certification system adopted in India.

Content

Module 1 (6 Hr.)

Introduction to Environmental Clearance

- a) Background of Environment laws and protocol.
- b) Ministry of Environment and Forests and its role in the process.
- c) Need and purpose for environmental clearance.
- d) Process of Environmental Clearances and concerned agencies.

Module 2 (6 Hr.)

Environmental Impact Assessment (EIA)

- a) Environmental impact assessment.
- b) Need and purpose of EIA.
- c) Provisions and regulations of EIA; regulatory bodies for impact assessment.
- d) Coastal regulation Zone.
- e) Process and provisions of Environmental Impact Assessment for housing and site development.

Module 3 (6 Hr.)

Overview of Green Rating

- a) Green Rating agencies in India and their Approach – BEE (ECBC), IGBC, TERI, EDGE etc.
- b) Process of rating and Certification.

Module 4 (6 Hr.)

LEED rating system

- a) Brief background of the rating system, Need and purpose of rating.
- b) Various criteria's for site development and building design.
- c) Provisions for green certification.

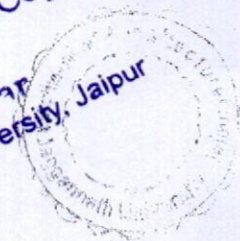
Module 5 (6 Hr.)

GRIHA rating system

- a) Brief background of the rating system, Need and purpose of rating.
- b) Various criteria's for site development and building design.
- c) Building typologies and the necessitated GRIHA rating.



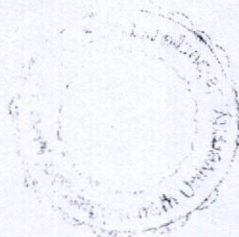
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REFERENCE BOOKS FOR CONCEPT OF GREEN BUILDING & ITS APPLICATIONS

1. Sascha Peters, Material Revolution. Sustainable and Multi-Purpose Materials for Design and Architecture
2. Laura Allen, The Water-Wise Home: How to Conserve, Capture, and Reuse Water in Your Home and Landscape
3. Carl Stein, Greening Modernism: Preservation, Sustainability, and the Modern Movement
4. Terence Conran, Eco House Book
5. Charles Bloszies, Old Buildings, New Designs: Architectural Transformations (Architecture Briefs)
6. Marta Serrats, 150 Best Eco House Ideas

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Name of Course: Principles of Architectural Acoustics

Course Code: VAL003

Syllabus Sample

Objective

- To understand the importance of acoustics in architecture
- To introduce the concept of sound and noise and its characteristics and properties
- To understand the behavior of sound and various terminologies related to sound
- To study the acoustical materials and various acoustical design measures
- To study the measures to control noise and techniques to enhance sound quality

Outcome:

After completion of this course student will be able to

- Understand the importance of acoustics in architecture
- Learn the basic terminologies and definitions of sound along with the acoustical materials
- Design the spaces which are required acoustics like auditoriums, seminar halls, open air theatres
- Understand the measures to control noise in built and unbuilt environment

Content

Module 1 (8Hr)

Introduction about Sound and Noise: • Fundamental Properties and characteristics of sound. (Frequency, wavelength, velocity, pressure, pressure level, intensity, pitch, tone, loudness, timbre etc.) • Noise: Physiological and Psychological impact of noise on human beings. • Noise criteria for various spaces viz: Living areas, Educational areas, Offices, Shopping etc. • Measures to control noise nuisance (Air borne and Structure borne) in residential, educational, commercial, and Industrial areas along with calculations. A. Basic Terminology and definitions: • Physics of sound • Sound • Intensity & loudness • Characteristics of sound-frequency, amplitude, speed. • Reverberation time, absorption coefficient, echo, all the units related to sound • Effect of physical condition on sound-temperature, humidity, pressure

Module 2 (10 Hr)

Behavior of Sound: • Behavior of sound in open and enclosed spaces with reference to the form of enclosures, and various surface finishes. (Reflection, Absorption, Diffraction, Insulation, Transmission, Echo, Resonance, Reverberation etc.) • Acoustical materials along with their properties, behavior, selection criteria, use, and construction details. • Criteria for acoustic environment-type of Building, usage, Geometry shape, Surfaces, Sound absorption, Selection of acoustical materials & their application – for wall / partition, ceiling, floor • Noise control techniques and their applications. Predictions of acoustical conditions and approach to designing enclosure for predetermined acoustical responses, corrective of existing deficient enclosures.

Module 3 (12 Hr)

Acoustical Design: • Reverberation time, Sabine's formula along with the limitations and prerequisites. • Acoustical design measures for live acoustical environment in enclosures used for various purposes viz Classrooms, Lecture halls, Auditoriums, Seminar Halls, Conference rooms, Meeting rooms, Theatres, Music concert halls, Opera houses, Dance halls, Open air theatres, Movie Theatres, Meditation centers, Group prayer halls etc. • Noise-physiological and psychological effects, transmission loss, flanking of sound, structure borne sound and noise from different mechanical equipments.

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REFERENCE BOOK FOR PRINCIPLES OF ARCHITECTURAL ACOUSTIC

1. Dr.V.Narasimhan - An Introduction to Building Physics - Kabeer Printing Works, Chennai-5 -1974.
2. D.J.Groomet - Noise, Building and People - Pergumon Press - 1977.
3. Thomas D.Northwood - Architectural Acoustics - Dowden, Hutchinson and Ross Inc. - 1977.
4. B.J.Smith, R.J.Peters, Stephanie Owen - Acoustics and Noise Control - Longman Group Ltd., -New York, USA - 1982.
5. David Eagan concepts in Architectural Acoustics.
6. Harold Burris - Meyer and Lewis Good friend, Acoustics for Architects - Reinhold
7. Noise & Vibration Control in Building by Jones (Robert S.)
8. Sound Space: Architecture for Sound and Vision by Peter Grueneisen
9. Ultimate Lighting Design by Herve Descottes



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(UGC Approved & NAAC Accredited)

Course Fees: Nil

DEPARTMENT OF EDUCATION

Duration: 32 hrs

Value Added Courses

B.Ed Students

- Soft Skill Development
- Management of School
- Personality Development
- Adolescent Care and Counselling

M.A. in Education

- Intellectual Property Rights
- Modern Pedagogical Techniques
- Communication Skills
- Introduction to English Skills

GRADED CERTIFICATE WILL BE PROVIDED AFTER COMPLETION OF THE COURSE

Class Time: After Regular Classes/Weekend

Date of Commencement: After 07 days from semester begins

Course Outcome: At the end of the course, learners will be able

- To understand about various skills
- To able to use soft skill
- To able to develop their Personality
- To able to communicate effectively
- To able to apply School Management skill.

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Contact for Registration

HOD, Department of Education
Jagannath University, Jaipur, Rajasthan, Mob. No. 9509250808

Ankush.sharma@jagannathuniversity.org



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Value Added Course:
Soft skill Development (VSSD)

Course objectives:

The course will enable the student

- This uniquely designed course aims at thorough understanding of the fundamental soft skills and of their practical social and workplace usage.
- It helps participants to communicate effectively and to carry themselves confidently and in harmony with the surroundings.
- They also learn how to identify and overcome the barriers in interpersonal relationships, and to employ oral and written communication, teamwork, leadership, problem-solving and decision-making skills, to gain best results.
- Students would find this course immensely useful for landing a great job, building a career and also finding employment as soft skills trainers, both in India and abroad.

Course Content:

Module-I:

Lecture 8

- Soft Skills: An Introduction – Definition and Significance of Soft Skills; Process, Importance and Measurement of Soft Skill Development.
- Self-Discovery: Discovering the Self; Setting Goals; Beliefs, Values, Attitude, Virtue.
- Positivity and Motivation: Developing Positive Thinking and Attitude; Driving out Negativity; Meaning and Theories of Motivation; Enhancing Motivation Levels.

Module-II:

- Communication: Interpersonal relations; communication models, process and barriers; team communication; developing interpersonal relationships through effective communication.
- Listening skills; essential formal writing skills; corporate communication styles – assertion, persuasion, negotiation.
- Public Speaking: Skills, Methods, Strategies and Essential tips for effective public speaking.
- Group Discussion: Importance, Planning, Elements, Skills assessed; Effectively disagreeing, Initiating, Summarizing and Attaining the Objective

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Module-III:**Lecture 8**

- Interview Skills: Interviewer and Interviewee – in-depth perspectives. Before, During and After the Interview. Tips for Success.
- Presentation Skills: Types, Content, Audience Analysis, Essential Tips – Before, During and After, Overcoming Nervousness.
- Etiquette and Manners – Social and Business.
- Time Management – Concept, Essentials, Tips.
- Personality Development – Meaning, Nature, Features, Stages, Models; Learning Skills; Adaptability Skills.

Course Outcomes:

- CO1 Understand the significance and essence of a wide range of soft skills.
- CO2 Learn how to apply soft skills in a wide range of routine social and professional settings.
- CO3 Learn how to employ soft skills to improve interpersonal relationships
- CO4 Learn how to employ soft skills to enhance employability and ensure workplace and career success

Books Recommended:

1. Managing Soft Skills for Personality Development – edited by B.N.Ghosh, McGraw Hill India, 2012.
2. English and Soft Skills – S.P.Dhanavel, Orient Blackswan India, 2010.

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Value Added Course:
Personality Development (VPD)

Course Objectives:

- To develop students overall personality.
- To understand and aware about importance, role and contents of soft skills through instructions, knowledge acquisition, demonstration and practice.
- To improve his writing and documentation skills.

Module-I:

8 Hours

- Concept, Meaning and Definition of Personality
- Elements of Personality
- Determinants of Personality
- Types of personality
- Personality analysis through body language and individual habits
- Physical aspects of personality
- Emotional stability
- Memory training

Module-II:

8 Hours

- Mind and mental development
- Mental blocks
- Manners and art of living
- Self Assessment & Self evaluation
- Self discipline, Self Appraisal
- Self-Awareness, Self criticism
- Positive thinking
- Thoughtfulness and responsible

Module-III:

8 Hours

- Art of Good Communication:
- Verbal & Non-Verbal Communication
- Difference between Oral and Written Communication
- 7'Cs of Effective Communication



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- Importance of Effective Communication
- Interview Preparation: Introduction, Resume Writing, Dress Code
- Mock-Interview, How to be Successful in an Interview
- Body Language- Gesture, posture, facial expression, Body language during presentation

Course Outcomes: On completion of the course, learner will be able to-

- CO1
CO2
CO3
1. Right attitudinal and behavioral change
 2. Developed right-attitudinal and behavioral change.
 3. Improved communication, interaction and presentation of ideas.

Text Books:

1. Communication Skills by Sanjay Kumar and Pushpa Lata, Oxford University Press.
2. Developing Communication Skill by Krishna Mohan, Meera Banerji, McMillan India Ltd.
3. English for Business Communication by Simon Sweeney, Cambridge University Press.

Reference Books:

1. Ethics in Engineering Practice and Research by Caroline & Whitbeck, Cambridge University Press.
2. NASSCOM-Global Business Foundation Skills: Accenture, Convergys, Dell et.al. Foundation Books: Cambridge University Press.
3. Thinks and Grow Rich by Napoleon Hill, Ebury Publishing, ISBN 9781407029252.
4. Awaken the Giant Within by Tony Robbins HarperCollins Publishers, ISBN139780743409384.

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Jaipur (Rajasthan) INDIA

Value Added Course:
Communication Skill (VCS)

Objectives:

- The course content is organized to focus on:
- Educate students to be problem solvers who are especially strong in oral and written communication.
 - Encourage students' analytical and creative skills in order that they will be prepared to address a wide variety of challenges in their professional lives.
 - Prepare students for lifelong productive careers which may include graduate studies, communication professions or corporate leadership.

Course content –

Module-I:

8hours

Communication skill

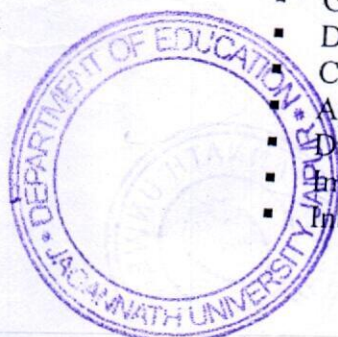
- *Introduction to Communication.*
- Purpose of Communication.
- Process of Communication.
- Importance of Communication in Business.
- Differences between Technical and General Communication.
- Barriers to Communication.
- Measures to Overcome the Barriers to Communication.
- Types of Communication.

Module-II:

Employment Communication

8hours

- Contents of Good Resume.
- Guidelines for Writing Resume.
- Different Types of Resumes.
- Characteristics of Cover Letter.
- Apply for a Job-Format of Cover Letter.
- Different Types of Cover Letters.
- Importance and Factors Involving Job Interview.
- Interview Techniques



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Module-III:**8hours***Report Writing and Writing E-mail*

- Features of Writing a Good Report.
- Purpose of Report Writing.
- Difference between Business Report and Teaching Report.
- Importance of communication in report writing.
- Guidelines for Report Writing.
- Types of Reports and Different Formats.
- Principles of E-mail.
- Overcoming Problems in E-mail Communication.

Prescribed Books:

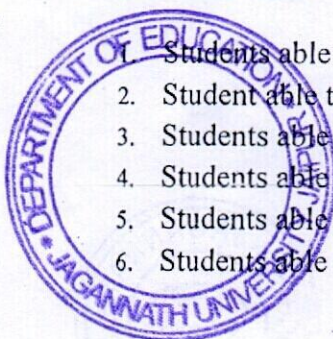
1. Communication skills, Jane summers & Brett smith.
2. Communication skills, A Hand Book; Judith Dyer.

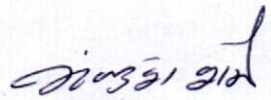
References:

1. Murphy et al.(1997) Effective Business communications, The Mc Graw hull companies Inc.
2. Mind Tools. .Mind Tool Ltd,126 Arthur Road Wimbledon London, sw19,United Kingdom.
3. Web Link; [http:// www.Mindtools.com](http://www.Mindtools.com) page 8.html.

Course Outcome:-

1. Students able to develop a global awareness of communication skill.
2. Student able to discover the impact of changing communication methods on society.
3. Students able to understand the process of communication and its effect.
4. Students able to develop a Good Writing Report.
5. Students able to understand interview techniques.
6. Students able to improve E-mail communication.




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Legal and Moral values in Law (VLMVL)

Course objective:-

- Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality.
- A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education.
- It contributes in forming true human being, who arable to face life and make it meaningful.
- There are different kind of values like, ethical or moral values, doctrinal or ideological values, social vai and aesthetic values.

Course outcome:-

- Leads students through a process of discovering and reflecting on oneself as a spiritual being and moral agent, that is someone who is an individual but also a member of communities, with the relative rights and obligations;
- Seeks to educate them in the notion of self-reflective responsibility and to making something positive of their lives.
- Contributes towards their moral and spiritual capacity to value, appreciate, perceive and critically interpret the world they live in;

Content

Module-I:

Supreme Court Rules 1966 and Supreme Court Rules 1966

- Advocates and their Course of Conduct
- Role of Single Judge and Registrar of the Supreme Court
- Types of Petition Entertained by the Supreme Court, Writ petition, Election Petition

Module- II:

Delhi High Court Rules 1967 Delhi High Courts Rules

- Advocates and their Course of Conduct
- Role and Power of Single Judge
- Civil and Criminal Jurisdiction of the Court

Module-III:

The Limitation Act, 1963 and The Registration Act, 1908

a. Limitation

- Procedural Law: Section 5 Condonation of Delay, ss6-9 Legal Disability, ss14-15 Exclusion of Time of Proceeding in Good Faith in Wrong Court, ss18-19 Acknowledgement
- Substantive Law: S25 Law of Prescription and s27 Adverse Possession, s 29 Saving Clause

b. Registration

- Compulsory Registered Documents s17
- Optional Registration s18
- Time and Place for Registration ss23-31

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- iv. Effects of Registration and non Registration ss47-50

**Module-IV:
Bench-Bar Relations**

- a. The Advocates Act, 1961
- b. State Bar Council and Bar Council of India; Duties and Functions
- c. Professional Misconduct and Punishments s35
- d. Role and power of Disciplinary Committee ss36-42

**Module- V:
Legal Ethics**

- a. Duty to Court, Client, Opponent, Colleagues s7 and s49, along with the Rules of the Bar Council India
- b. Duty towards Society

References:

1. *Kailash Rai, Legal Ethics, CLP, 2007 (7th Edn)*
2. *Ramachandran Raju & Gaurav Agarwal, B.R. Agarwala's Supreme Court Practice and Procedure, Eastern Book Company, 2002*

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RIGHT TO INFORMATION ACT, 2005 (VRTI)

2

Course objective:-

- The RTI empowers people to seek information from the government and public organizations and ask for government documents and their copies.
- Through the RTI, citizens know about government decisions and the limitations of the country and the government. RTI promotes transparency and accountability.

Course outcome:-

- Right to Information is just like oxygen for democracy. It stands for transparency. Information would lead to openness, accountability and integrity.
- Besides, apart from ensuring greater transparency it also acts as a deterrent against the arbitrary exercise of public powers. A culture of individual action, political consciousness and public spirit is the basis for the success of democracy.

Content

Module 1

Introduction of Right to Information Act 2005:

History, Background, Objectives, Preamble of Right to Information Act 2005, Obligation of Public Authorities (Section 3 to 11)

Module 2

Right to Information in Global Perspective:

(World right to Know)

- a) United Nations and the Right to Information
- b) The Commonwealth and the Right to Information
- c) The Right to Information in USA
- d) The Right to Information in UK
- e) Rome Convention for the Protection of Human rights and Fundamental Freedoms, 1950

Module 3

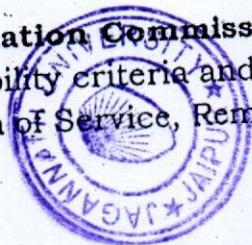
Right to Information as Constitutional rights:

Protection of Article 19(1) (a), Right to privacy, Contempt of Court, Public Interest vis-à-vis Information

Module 4

The Central Information Commission:

Constitutions, Eligibility criteria and Process of Appointment, Term of Office and Condition of Service, Removal of Informational Commissioner



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Module 5

The State Information Commission:

Constitutions, Eligibility criteria and Process of Appointment, Term of Office and Condition of Service, Removal of Informational Commissioner, Right to Information and E-Governance: Electronic Information Dissemination, need for regulation, Jurisdiction in Cyberspace: Problem And perspective

Module 6

Power and Function:

Information Commission, Appeal and Penalties under Right to Information Act 2005, Breach of Confidentiality and Privacy-The Indian perspective An 'offence' under the Indian Information Technologies Act 2000

Module 7

Right to Information and Other Acts, Reports, Bill :

- a. The official Secrets Act, 1923
- b. Public records Act 1993, Public records rules 1997
- c. The Freedom of Information Act 2002
- d. Reports of National Commission to Review the working of the Constitution ,2002(relevant provisions)



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Date

BASICS OF WOMEN EMPOWERMENT (VBWE)

Course Objective: This paper is

- Undertakes, promotes and coordinates both fundamental and applied research on women and development;
- Organizes and assists training programmes for scholars, communicators, members of women's organizations/ cooperatives etc.;

Course Outcomes: - Students graduating with Law of Contract will be able to:

- The principal output of the Commission on the Status of Women is the agreed conclusions on priority themes set for each year.
- Agreed conclusions contain an analysis of the priority theme and a set of concrete recommendations for governments, intergovernmental bodies and other institutions, civil society actors and other relevant stakeholders, to be implemented at the international, national, regional and local level.

Content

Module I:

FUNDAMENTAL CONCEPTS OF WOMEN'S STUDIES

Definition- Objectives of Women's Studies; Importance of Women's Studies; Women's Studies as an Academic Discipline; Role of UGC Centre for Women's Studies; Women's Studies in India and Abroad – Origin and Growth.

Module II:

EMPOWERMENT

Women in Higher Education; Gender issues in Health, Environment, Family welfare Measures, Indecent representation of Women in media; Women in Difficult circumstances; Constitutional.

Module III:

ECONOMIC EMPOWERMENT

Introduction-organized sector, unorganized sector; Role of Women in Economic Development – Female Poverty and Poverty alleviation programmes; Status of Women farmers and land rights; Women Entrepreneurs; Impact of Globalization on working women; National Policy for the empowerment of women 2001.

Module IV:

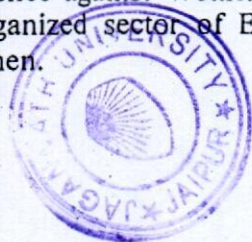
POLITICAL EMPOWERMENT

Political participation of women – Political Socialization- Women leaders in politics- Women in Local Governance- Barriers- Reservation policies- Women's Political Rights: CEDAW.

Module V:

SOCIAL ISSUES REGARDING WOMEN

Issues of Girl child, Female, infanticide and foeticide, Sex Ratio child marriage, Dowry & Property Rights, Violence against Women, Domestic violence, Female Headed Households', Women in the Unorganized sector of Employment, Women's work- Status and problems, problems of Dalit women.



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REFERENCES

1. Amy S. Wharton. (2005). "The Sociology of Gender: An Introduction to Theory and Research". (Key Themes in Sociology) Blackwell Publishing, UK, Indian Reprint, Kiiaso Books, New Delhi.
2. Devaki Jain and Pam Rajput (Ed). (2003). "Narratives from the Women's Studies Family: Recreating Knowledge, Sage, and New Delhi.
3. Jasbir Jain (Ed). (2005). "Women in Patriarchy: Cross Cultural". Rawat Publications, Jaipur.
4. Kumkum Sangari and Sudesh Vaid. "Recasting Women: Eassy in Colonial History".
5. Lerner, Gerda. (1986). "The Creation of Patriarchy". Oxford University Press, New Delhi.
6. Maithreyi Krishna Raj. (1986). "Women Studies in India: Some Perspectives". Popular Prakasham, Bombay.
7. Mala Khullar, (Ed). (2005). "Writing the Women's Movement: A Reader". Zubaan, Kali for Women, New Delhi.
8. Mies, Maria. (1980). "Indian Women and Patriarchy". Concept Publishing Company, New Delhi.

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Principle of Human Rights (VPHR)

Course objective:-

- Describe specific theoretical, conceptual and practical challenges facing the fields of human rights law and sustainable development, adopting an interdisciplinary approach.
- Articulate critical analysis on the relationship between respect for human rights and sustainable development.

Course outcomes:-After studying this course, you should be able to:

- Understand the historical growth of the idea of human rights
- demonstrate an awareness of the international context of human rights
- demonstrate an awareness of the position of human rights in the UK prior to 1998
- understand the importance of the Human Rights Act 1998
- Analyze and evaluate concepts and ideas.

Content

Module -I

A Conceptual Understanding of Human Rights

Human Rights Concept, Definition, Meaning & Nature, Human Values: Liberty, Equality and Justice

Module - II

Administration of Criminal Justice and Human Rights

Role of Criminal Justice System, Administration of Criminal Justice: Ordinary Courts; Special Courts, District Courts, Human Rights Courts, Naya Panchayat, Lok Adalt, Fast-Track Court.

Module -III

Human Rights Problems

Police Atrocities and Custodial Torture, Violence against Women and Children, Communal Violence; Caste and Class Conflict, Terrorism and Insurgency

Module -IV

Rights of the Accused

Rights of Accused; Double Jeopardy, Against Self- Incrimination, Production Before Magistrate, Fair Trail, Speedy Trail, Appeal, Parole and Probation.

Rights of Prisoner: Legal Aid, Access to Justice and Speedy Justice; Right to Compensation, Prison Reforms.

REFERENCES

- Bava, Noorjahan, (ed), (2000), *Human rights and Criminal Justice Administration in India*, Uppal Publishing House, New Delhi.
- Vibhute Baxi, Upendra, (1988), Clemency, Extradition and Death: The Judicial Discourse in Keher Singh, *Journal of Indian Law*, Vol. 30, and No. 4.
- Bhagwati, P.N.,(1985,) Human Rights in the Criminal Justice System, *Journal of Indian Law Institute*, Vol. 27, No. 1.



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- Arora, Nirman, (1999), Custodial Torture in Police Stations in India: A Radical Assessment, *Journal of Indian Law Institute*, Vol. 41, Nos 3 and 4.
- Vibhute, K.I, (1990), *Compensating Victims of Crimes in Indian Society*, Delhi Shubhi
- Ghosh, S.K., (1993), *Torture and Rape in Police Custody*, New Delhi: Asish Publishing House.
- Guttal, G.H, (1986), *Human Right: The Indian Law*, *Indian Journal of International Law*, vol. 26.
- Vada Kumchery, James, (1991), *The Police and Delinquency in India*, New Delhi: APH Publishing Corporation.

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JAGANNATH
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Department of Agriculture

Circular

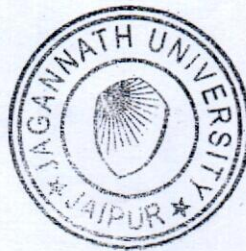
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Dated:26.11.2019

It is inform to all the Even Semester students of B.Sc.(Hons) Agriculture for registration of Value Added Courses(VAC). The registration will be starting from 03/12/2019 till 14/12/2019. The classes will be starting from January 08, 2020. The students can contact to Dr S.L.Sharma for further queries.

The following courses are offering for respective semester.

1. Good Agricultural Practices on Horticultural Production (II semester)
2. Future Approach to Organic Agriculture (IV Semester)
3. Role of Information Communication Technology for Sustainable Agriculture Development (VI Semester)



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Dean

Faculty of Science
Deptt of Agriculture

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2. P.S. to President
3. Registrar
4. Central Library



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Jagannath University Jaipur is offering Value Added Certificate Courses that are being conducted by various departments to complement students' knowledge and skills in their field of study. Courses offered are chosen based on current trends, relevance and value in the job-market.

Duration: 32 Credit hours

Timings: 04:30 pm to 05:30 pm

Date of Commencement: 08 January, 2020

Registration & other details: Registration will open from **03.12.2019** to **14.12.2019** through a link on website www.jagannathuniversity.org Students should contact **Prof. S. L. Sharma** (I/c value added courses programme) for further queries.

Course Certificate: Certificate mentioning acquired grade will be provided as per performance in test at the end of Course.

Participants: Students of II, IV and VI semester from JAGAN NATH UNIVERSITY may apply.



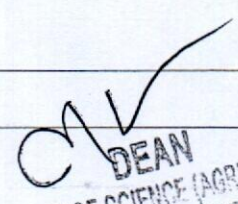
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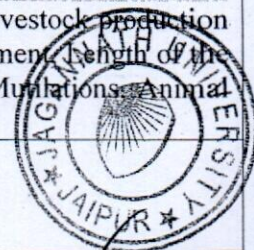
Semester	II
Course Title	VACAG-202 Good Agriculture Practices for Horticulture Production
Objectives	<ul style="list-style-type: none"> Deliver to the consumer healthy and safe high-quality food products in manner that permits sustainable yields and ensures the livelihood of producers and processors while protecting or enhancing the environment.
Course Details	<p>Understanding modern horticultural supply chains- Introduction, Key stakeholders within horticultural supply chains, Flows with the modern supply chain that govern optimal functioning, Range of vertical coordination possibilities in supply chains. Integration of small farmers into horticultural chains- Contract farming, Models of contract farming. Traditional and modern marketing channels for horticultural produce, Marketing channels for rural and urban consumers, Assemblers and wholesalers, Informal retailers, Formal retailers.</p> <p>GAP for fresh produce- site selection, cultivation methods, erosion control, irrigation, hoeing, mulching, flood control, pests and diseases. GAP to maintain soil fertility- mulching, crop rotation, drainage, erosion and degradation, fertilizer, environmental protection guidelines regarding soil fertility management, organic soil fertilizer application.</p> <p>Water resources and irrigation practices- GAP related to water uses, Interactions between traditional and modern water management systems, agricultural water quality, Irrigation practices, GAP to prevent contamination of water sources, Agricultural water microbiological testing procedures, Precautions for handling drinking water in the fields and packing areas. Seed, crop selection and seedlings production. Crop pests and diseases- Crop infestation and damage during production and post-harvest, Development of plant diseases. Integrated pest management (IPM), Different methods in IPM. Pesticide application- Pesticide hazard classification and uses, Pesticide formulations.</p>
Course Incharge	Ms Renuka




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Semester	IV
Course Title	VACAG-402 Future approach to Organic Agriculture
Objectives	<p>Objective: The objectives of this course-</p> <p>(i) To fill the existing knowledge gap with regard to the sustainability, challenges, and perspectives of the organic livestock sector, as well as regarding its contribution to the agri-food system's sustainability.</p> <p>(ii) Providing strategies and insights that will help stakeholders and policy makers to improve the sustainability of both the organic livestock sector and that of the whole food system.</p>
Course Details	<p>Module 1 (10Hr)</p> <p>Introduction to organic livestock farming. Historical development of organic livestock farming. Characteristics of organic livestock farming: Breeds and Breeding, Feeds and Feeding, Housing, Disease prevention, Treatment. Challenge of organic livestock farming in India conditions. Factors influencing organic livestock farming success: Regulation and certification bodies, Animal nutrition : Legislation and market.</p> <p>Module 2 (12Hr)</p> <p>Opportunity for organic livestock farming in India accepted by consumers. Encourage biodiversity. Benefits of organic livestock farming: Environment, Animal health, Nutrient cycling, Weed control, Preparing the ground for cropping, Organic certification: Major Certifying bodies which monitor the standards for organic production & having world wide acceptance are- EU Regulation(1804/1999), Organic Food Products Acts (OFPA) of USA, Draft Guidelines of Codex/ WHO/FAO, International Federations of Organic agricultural Movements(IFOAM).</p> <p>Module 3 (10Hr)</p> <p>Steps required for certification. National standards for organic livestock production in India: Landscape, Fertility policy, Animal husbandry management, Length of the conversion period, Brought in Animal, Breeds and Breeding, Mutations, Animal nutrition, Veterinary medicine, Transport and Slaughter.</p>
Course Incharge	Prof. (Dr.) G. R. Chaudhary



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Semester	VI
Course Title	VACAG-602 Role of Information Communication Technology for Sustainable Agriculture Development
Objectives	<ol style="list-style-type: none"> 1. To bridge the gap between Information have and information have not in the developing countries. 2. To create a best platform to provide an exposure to the students aspiring for applying the advancements of Information technologies in agriculture. 3. To develop an understanding that how best these ICT tools can be used as an integral part of Agriculture Extention. 4. To gain knowledge and skills in understanding the concepts of Information and communication technologies. 5. To study the available studies on various ICT projects which are successful in delivering the services to the clientele fulfilling the objectives of transfer of technology.
Course Details	<p>A. Introduction to ICTs for sustainable Development : Introduction to Information and Communication Technology (ICT). Role of ICTs in Sustainable Development . Current Status of ICTs in Sustainable Development Global and India Scenario. Potential of ICTs in various fields, impact of information Technologies on GDP growth .</p> <p>B. Building Knowledge Societies : The concept of Knowledge Society ; identifying stakeholders and target communities .Understanding information needs, Traditional vs. contemporary knowledge systems, information processing and retrieval . Understanding means of communication in different areas, developing an effective communication strategy case Warma, Wild.</p> <p>ICT Applications Applications of ICT in education, Health (tele health, telemedicine and health informatics), Gender Equality, Agriculture (e Governance, tele-centers, Mobiles for development, climate change and disaster management, ICT Networks for water management (This module will be dealt with the help of country case studies in all the sectors and inputs from ICT 4D practitioners Case Studies . eCME, Apollo Telemedicine Network Foundation, Bhoomi, e -Sewa, Gyandoot, e-Agriculture. M-PESA, CYCLETEL).</p> <p>Information and Communication Technologies The hardware and software, the physical infrastructure, satellite, wireless solutions, telecommunication technologies, mobiles, fixed line, internet and world wide web, community radio, technology-user interface, design of relevant ICT products and services.</p>
Course Incharge	Prof. (Dr.) P.N. Kalla

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SYLLABUS

Name of Course- VACAG-202 Good Agriculture Practices for Horticulture Production

Objective

- Deliver to the consumer healthy and safe high-quality food products in manner that permits sustainable yields and ensures the livelihood of producers and processors while while protecting or enhancing the environment.

Contents

Module 1 (10Hr)

Understanding modern horticultural supply chains- Introduction, Key stakeholders within horticultural supply chains, Flows with the modern supply chain that govern optimal functioning, Range of vertical coordination possibilities in supply chains. Integration of small farmers into horticultural chains- Contract farming, Models of contract farming. Traditional and modern marketing channels for horticultural produce, Marketing channels for rural and urban consumers, Assemblers and wholesalers, Informal retailers, Formal retailers.

Module 2 (8Hr)

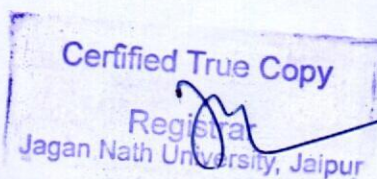
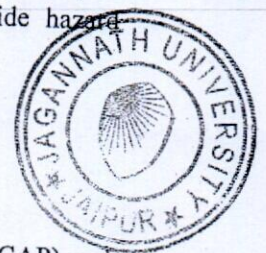
GAP for fresh produce- site selection, cultivation methods, erosion control, irrigation, hoeing, mulching, flood control, pests and diseases. GAP to maintain soil fertility- mulching, crop rotation, drainage, erosion and degradation, fertilizer, environmental protection guidelines regarding soil fertility management, organic soil fertilizer application.

Module 3 ((15Hr)

Water resources and irrigation practices- GAP related to water uses, Interactions between traditional and modern water management systems, agricultural water quality, Irrigation practices, GAP to prevent contamination of water sources, Agricultural water microbiological testing procedures, Precautions for handling drinking water in the fields and packing areas. Seed, crop selection and seedlings production. Crop pests and diseases- Crop infestation and damage during production and post-harvest, Development of plant diseases. Integrated pest management (IPM), Different methods in IPM. Pesticide application- Pesticide hazard classification and uses, Pesticide formulations.

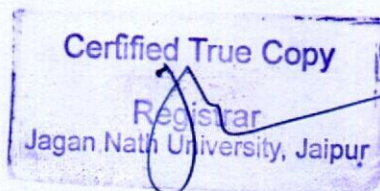
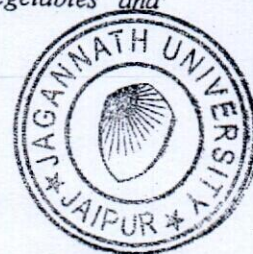
Outcome

- Students understand the importance of food safety and regulation.
- Students understand the importance of implementing good agricultural practices (GAP) and good manufacturing practices (GMP) as important steps to reduce the impact of possible hazards throughout the production and distribution chain.
- Students understand the importance of promoting GAP for both quality assurance and market access to improve country economy and producers' livelihoods.
- Develop an appreciation of the supply chain as a mechanism for delivering horticultural produce that meets market requirements.



References-

- Gardner, S. 2012. *Consumers and food safety: A food industry perspective*. In *Food, Nutrition, and Agriculture – Consumer participation in food control*. J.L. Albert, ed. FAO, Rome. Available via the Internet at <http://www.fao.org/docrep/v2890t/v2890t00.html>.
- Ministry of Agriculture and Food Security. 2014. *Plant pests field handbook*. NRI Handbook of Integrated Vegetable Pest Management. <http://www.cpp.uk.com/outputs.asp?step=5&pid=10>
- Zepp, G., Kucher, F. & Lucier, G. 2016. *Food safety and fresh fruits and vegetables: Is there a difference between imported and domestically produced products? Vegetables and Specialties*, Economic Research Service/USDA, VGS-274:23.



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(UGC Approved & NAAC Accredited)
Department of Physiotherapy

Date: - 3/10/2019

Circular

It is informed to all the students of BPT & MPT for registration in Value added Course (VAC). Registration will be starting from 4/10/2019 until 24/10/2019. The classes will be starting from 2/11/2019. The students can contact the coordinator of department for further queries.

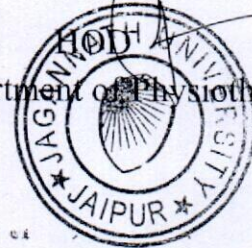
Following Courses are offering for Respective Years:

SN	Program Name	Value added Course
1	BPT-PART-I	DRY NEEDLING ADVANCE TREATMENT FOR TRIGGER POINT (V-DN)
2	BPT-PART-II	CUPPING THERAPY (V-CT)
3	MPT-PART-I	CLINICAL SPORTS TAPING (V-ST)
4	MPT-PART-II	UNDERSTANDING OF ACUPRESSURE POINT AND TREATMENT (V-AP)

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P.S to President
Registrar

Department of Physiotherapy



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Jagannath University
Jaipur (Rajasthan) India
Value added Course
Session 2019-2020
Department of Physiotherapy

Course Introduction:

- Value added certificate course can enhance students understanding of rationale and basic investigative approach to the Medical System and can implement specific Physiotherapy measure effectively.
- Students can identify and evaluate the Anatomical, Patho-Physiological impairments resulting in various age groups and occupation and arrive at an appropriate diagnosis.

List of value added courses:

S.N	Program Name	Value added course	Duration
1	BPT- PART-I	DRY NEEDLING ADVANCE TREATMENT FOR TRIGGER POINT (V- DN)	30 Hour
2	BPT- PART-II	CUPPING THERAPY (V -CT)	30 Hour
3	MPT- PART-I	CLINICAL SPORTS TAPING (V-ST)	30 Hour
4	MPT- PART-II	UNDERSTANDING OF ACUPRESSURE POINT AND TREATMENT (V-AP)	30 Hour



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**Jagannath University
Jaipur (Rajasthan) India
Value Added Course**

Dry Needling – Advanced Treatment for Trigger Points (V-DN)

Course Objectives: The course will enable the student

- To learn the current Myo-fascial and trigger point concepts
- To understand the neurophysiology of superficial and deep dry needling
- To learn the Patho-Physiology of muscles and trigger points
- To learn and understand the ethics, precautions, indications and contraindications of Dry Needling in patients

MODULE-I

(8 Hour)

The neurophysiology of superficial and deep dry needling, ethics, precautions, indications and contraindications, pain–spasm–pain cycle, myo-fascial pain syndrome (MPS), active and latent myo-fascial trigger points, muscle pain and trigger points

MODULE-II

(10 Hour)

Pathophysiology of muscles and trigger points, superficial and deep DN, complications, do's and don'ts. Details of clean and safe needling techniques, no grey areas, referred pain and needle types and needle choices. Practical techniques of DN in the lateral thigh and superficial buttock, gluteus maximus, gluteus medius, gluteus minimus, piriformis, TFL, iliopsoas and the lumbar spine muscles.

MODULE-III

(12 Hour)

The Cervical Spine and upper quarter: Surface anatomy and palpation skills and dry needling procedure of cervical spine, ribs, scapula and upper thorax. Trapezius, sternocleidomastoid cervical spine muscles, levator scapulae, rhomboids, the rotator cuff group and the pectoralis major and latissimus dorsi



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Ranjana
Jagannath University, Jaipur

The Oro facial area and extremities: Surface anatomy and palpation skills and dry needling procedure of head and face and temporo-mandibular muscles, deltoid, biceps, triceps, brachialis, brachioradialis, forearm muscles -supinator, pronator teres, common flexors and extensors quadriceps, adductors, sartorius, hamstrings, lower leg muscles- popliteus, gastrocnemius, soleus, peroneus, FHL, tibialis anterior and tibialis posterior

Books Recommended:

- I. The concise Book of Dry Needling, Practical Applications for myofascial Trigger point therapy
John Sharkey, Second Edition
- II. Manual of Dry Needling techniques, Vol:1 Upper & Lower Quarter, Piyush Jain (PT)
- III. Trigger point dry needling, An Evidence and clinical –based approach, Jan Dommerholt, Second edition

Course Outcomes: After completion of this course, student will be able to

- Understand the basic scientific backgrounds of the Myofascial pain syndrome and of trigger points.
- Identify the Top 30 muscles by surface anatomy, palpation and function. They will also understand their clinical symptoms and perpetuating factors.
- Identify the features of trigger points by physical examination and apply this knowledge to the top 30 muscles.
- Understand the specific indications and contraindications of Dry Needling.
- Have the ability to apply the safety rules for Dry Needling.



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Jaipur (Rajasthan) INDIA

Value Added Course:
Cupping therapy (V-CT)

Course Objective –

The course will enable the student

- To learn how cupping works, various type of cupping equipments and their functioning.
- To understand the different types of cupping and zoning popular with regards to basic human anatomy.
- To learn the general benefits of cupping for health purposes and how cupping affects the body
- To learn and understand the ethics, precautions and contraindications of cupping therapy in patients

Module –I

(10 Hour)

Introduction to Cupping

- Basics of respiratory system, cardiovascular system and cell biology
- Foundations of cupping, including its origins and myths, as well as an introduction to Rock Tape's cutting-edge version of cupping tools — Rock Pods.
- How cupping works, the materials used to make the most impact with your clients (without the use of a blowtorch), and types of cupping that are effective
- How cupping affects the body with a bit of anatomy and physiology background, and research to back it up
- What exactly Rock Pods are and how to keep your equipment clean.

Module –II

(10 Hour)

Cupping Assessments & Applications

- Learn how to assess which cupping techniques are best for your clients, and how to properly use them so you feel confident in your skill set.
- How to apply cups to specific areas in the upper and lower extremities, including hand/wrist, feet, shoulder, elbow, the trunk and more
- Practical methods for keeping clients comfortable and safe
- Indications and contraindications to consider when providing the best care
- Therapist-assisted manipulation and screening techniques
- Demonstrations and case studies with techniques, including internal and external glides
- When to use dry cupping—and when not to.



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Module --III
(10Hour)

Application –

- Nerve entrapment cupping — sciatic,tibial,femoral,median and several other key nerve areas
- How to use cupping for skin scarring mobilization
- Cupping in diseases of the digestive, circulatory and respiratory systems
- Application of dry cupping, wet cupping, massage cupping, vacuum cupping, acupuncture cupping and facial cupping.
- Acupressure points
- How to eliminate toxin after cupping technique
- Common things you will see, like the red circles left behind and what they might indicate
- Cupping color mark meaning

Books Recommended:

1. Modern cupping therapy by Shannon Gilmartin
2. A Practical Guide to Cupping Therapy by Wu Zhongchao
3. Basics of dry cupping by Mary Conrad.
4. Complete Guide to Cupping Therapy by Dr. Tamer.
5. Dry cupping by Magi Hansen

Course Outcomes: After completion of this course, student will be able to-

1. Correctly use cupping therapy for clinical and traditional treatments.
2. Understand the basic scientific backgrounds of the acupressure point and cupping.
3. Understand the specific indications and contraindications of cupping therapy
4. Have the ability to apply the cups on human body according to illness.



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Jaipur (Rajasthan) India

Value Added Course:

Understanding of Acupressure Point and Treatment (V-AP)

Course objectives: The course will enable the student

- To understand the basics of pressure point.
- To develop an effective treatment plan using acupuncture and other accessory techniques.
- To treat or prevent illness using acupuncture and accessory techniques while complying with current best practices.
- To assess the effectiveness of the acupuncture treatment plan and modify as needed.

Module –I

(10 HOURS)

Overview of general anatomy of motor points and pressure points in human body, definition and concepts of Acupressure, principles of Acupressure, material and methods of Acupressure, contra indications and complications of Acupressure, General Physiological effects of Acupressure.

Module –II

(07 Hour)

Reflexology, history, development & principles. Body and its reflex zones.
Applications, indications and contraindications. Preventive aspects of Reflexology.

MODULE-III

(10 Hour)

TECHNIQUES- uses of acupressure **TECHNIQUES** in following conditions -

- Tension headache
- Migraine



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- Shoulder pain
- Chest muscle pain
- Upper & lower back pain
- Menstrual cramp
- Elbow pain
- Knee pain
- Hand and foot pain

Books Recommended:

- i) Human anatomy by B.D Chaurasia
- ii) The Acupressure Atlas by Bernard e.kolster, M.D
- iii) Acupressure Points Guide by Curtis Johnston
- iv) Acupressure's Potent Points: A Guide to Self-care for Common Ailments Book by Michael R. Gach
- v) Hand Reflexology and Acupressure by by Chen Feisong and Gai Guozhong
- vi) Handbook of Reflexology by Laura Norman and Thomas Cowan
- vii) Essentials Of Medical Physiology by K.Sembulingam

Course Outcomes:

At the end of the course, a student will be able

- Understand the topographic and gross anatomy of the most common insertion sites used in Acupuncture.
- Identify, using standardized palpation maneuvers to access a broad selection of anatomical structures relevant to the practice of Contemporary Medical Acupuncture, motor points, muscle-tendon junctions, teno-periosteal attachments, ligaments, joints, peripheral nerve trunks and peripheral neurovascular bundles.
- Understand the basic mechanisms of acupuncture and treat various diseases



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Value Added Course:
Clinical Sports Taping (V-ST)

Course objectives: The course will enable the student

- To understand the general anatomy & physiology of soft tissue, muscles & joints
- To introduce step by step applications of taping for chronic edema, scar and facial management, nerve taping as well as acute and chronic pain management.
- To increase knowledge and develop the professional skills required to identify common injury sites and to offer appropriate intervention for the preparation and treatment of the site using taping and strapping.

Course Content:

Module –I

(10 hour)

- Introduction of anatomical joints, soft tissue & muscles
- Motor control
- Muscle injury, ligament tear during sports ,basic biomechanics in sports person, biomechanical principles, levers, hysteresis, tendinopathy
- Physiological effects of taping
- Indication and contra -indication of sports injury taping.
- Common athletic injuries
- Sprain ,strain

Module –II

(08 hour)

- Introduction of taping and taping kit
- Application
- Assessment of patient
- Physiology of acute pain and its treatment by taping.
- Fundamental Concepts and Techniques
- Advanced Techniques and Clinical Reasoning



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- Overuse syndrome
- Muscle correction theory

Module-III

(12 Hour)

- How to use Dynamic tape, explain the different usages of Dynamic Tape

Application Techniques.

- Upper Limbs
 - 1) Shoulder
 - 2) Elbow
 - 3) Hand
- Lower Limb
 - 1) Patello-femoral Joint –
 - 2) Hip
 - 3) Ankle
 - 4) Foot
- Correctional Technique
- Ligament (Tissue Lift) Technique
- Methods of safely removing Tape from skin.

Books Recommended:

- i) Human anatomy by B.D Chaurasia
- ii) A practical guide to kinesiology taping by John Gibbons
- iii) Kinesiology taping by John Langendoen and Karin Sertel
- iv) Kinesiology Taping: Your Guide To The Best Methods And Techniques by Little Pearl
- v) Fundamental of biomechanics Sport And Exercise by Peter Merton McGinnis

Course Outcomes

At the end of the course, a student will be able

- Gain knowledge about the type of tapes & its uses.
- Apply the concept of taping in various sports injury
- Understand the sports biomechanics.



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Course Fee: Nil

Duration: 30 Hrs.

Faculty of Science
Department of Physical Sciences

Value Added Course: Laser Physics and Its Applications

Course Code: VLPA

Eligibility: Science Undergraduate

GRADED CERTIFICATE WILL BE PROVIDED AFTER COMPLETION OF THE COURSE

Class Time: After regular classes

Date of Commencement: After 07 days from semester beginning

Course Outcomes: At the end of the course, learners will be able

- ❖ Understand the role of resonant cavity in laser.
- ❖ Learn the concept of lasing action.
- ❖ Explain the phenomena of coherence.
- ❖ Describe how laser differ from other optical devices.
- ❖ Describe applications of laser in daily life.

Expert Name: Dr. Amit Goswami

Contact for Registration

Head, Department of Physical Sciences, Faculty of Science,

Jagan Nath University, Jaipur, Rajasthan INDIA

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Course Fee: Nil

Faculty of Science
Department of Physical Sciences

Duration: 30 Hrs.

**Value Added Course: Application of Matlab in various topics in
Mathematics**

Course Code: VAMM

Eligibility: Science Undergraduate

GRADED CERTIFICATE WILL BE PROVIDED AFTER COMPLETION OF THE COURSE

Class Time: After regular classes

Date of Commencement: After 07 days from semester beginning

Course Outcomes: At the end of the course, learners will be able to:

- ❖ Understand the main features and importance MATLAB /SCI-LAB mathematical programming environment.
- ❖ Apply working knowledge of MATLAB /SCI-LAB package to simulate and solve mathematical problems.

Expert Name: Dr. Vivek Kumar Sharma

Contact for Registration

Head, Department of Physical Sciences, Faculty of Science,

Jagan Nath University, Jaipur, Rajasthan INDIA

Ph: 0141-3020516

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Course Fee: Nil

Faculty of Science
Department of Physical Sciences

Duration: 32 Hrs.

Value Added Course: Applications of Textile Chemistry

Course Code: VATC

Eligibility: Science Undergraduate

GRADED CERTIFICATE WILL BE PROVIDED AFTER COMPLETION OF THE COURSE

Class Time: After regular classes

Date of Commencement: After 07 days from semester beginning

Course Outcomes: At the end of the course, learners will be able to:

- ❖ Understand about the textile fibers.
- ❖ Learn the usages of fiber.
- ❖ Understand the dyeing process.
- ❖ Fulfill the specially regional and local needs, regarding dyeing and printing of textile material.
- ❖ Get more chances of employment in dyeing and printing textile Industries.

Expert Name: Dr. Anil Kumar Sharma

Contact for Registration

Head, Department of Physical Sciences, Faculty of Science,

Jagan Nath University, Jaipur, Rajasthan INDIA

Ph: 0141-3020516



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Faculty of Science
Department of Physical Sciences
Laser Physics and Its Applications (VLPA)

Course Objective

- To understand the concept of coherence.
- Know the mechanism of light emission.
- To understand the working of Laser.
- Understand the applications of laser.
- The students will be able to apply the concepts learnt to several real world problems.

Module 1 Coherence & Mechanism of Light Emission: Wave train, Coherence length, Coherence time, Bandwidth, Temporal coherence, Spatial coherence, Oscillating electric dipole, Thermal radiation, Ultraviolet catastrophe, Planck's radiation law, Photon, Spectrum, Spectral lines, Luminescence.

Module 2 Laser: Attenuation of light in an optical medium, Thermal equilibrium, Interaction of light with matter, Einstein coefficient, Light amplification, Population inversion, Metastable states, Components of laser, Lasing action, Principle pumping schemes, Role of resonant cavity, Modes of laser beam, Laser beam characteristics.

Module 3 Types of Laser & Laser Applications: Ruby laser, Nd:YAG laser, He-Ne laser, CO₂ laser, Semiconductor laser, Applications of Laser: Industrial applications, Medical applications, Military applications, applications in communication, scientific and engineering applications, Holography: principle and applications.

At the end of the course, the student will be able to:

- CO1: Understand the role of resonant cavity in laser.
CO2: Learn the concept of lasing action.
CO3: Explain the phenomena of coherence.
CO4: Describe how laser differ from other optical devices.
CO5: Describe applications of laser in daily life.



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Reference Books:

1. BrijLal, M. N. Avadhanulu and N. Subrahmanyam, A Text Book of Optics, 25/e, S. Chand Publishing, 2012, ISBN: 9788121926119.
2. AjoyGhatak, Optics, 6/e, McGraw-Hill, 2017, ISBN: 9780073380483.
3. M N Avadhanulu & Dr. P S Hemne, An Introduction to Lasers- Theory and Applications, S. Chand Publishing, 2001, ISBN: 9788121920711.

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Faculty of Science

Department of Physical Sciences

Value Added Course: Application of Matlab in various topics in Mathematics (VAMM)

Course Objective:

In order to help the students in exploration of mathematical concepts through activities, The computer simulation tool "Matlab" is introduced. To understand the basic principles of programming and implementing mathematical concepts in MATLAB. Writing numerical algorithms and evaluate the computational results using graphical representations.

Course Outcomes:

After completion of this course student will be able to:

- Understand the main features and importance MATLAB /SCI-LAB mathematical programming environment.
- Apply working knowledge of MATLAB /SCI-LAB package to simulate and solve mathematical problems.

Course Content:

Module 1 (08 Hr)

Installing MATLAB /SCI-LAB mathematical programming environment. Understand the main features and importance of MATLAB /SCI-LAB. Apply working knowledge of MATLAB /SCI-LAB package to simulate and solve mathematical problems .

Module 2 (12 Hr)

Inverse, Determinant and Eigenvalues, Transpose and Upper/Lower Triangular parts, Solving Linear Systems in MATLAB

Module 3 (10 Hr)

Plotting of Scalar and Vector fields, functions and polynomials, differentiation integration of functions their plots, are between the curves and length of curves, findings the root of an algebraic equation using Newton of Rophason method.

Books Recommended:



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Faculty of Science

Department of Physical Sciences

Value Added Course: Application of Textile Chemistry (VATC)

Course objectives:

The course will enable the student

- To introduce students with the world of textile fibers.
- To learn various varieties of fibers and their usages.
- To learn certain chemical properties of those fibers.
- To learn the dyeing process.
- To fulfill the regional and local needs regarding textile industries.

Course Content:

Module-I:

Lecture 8

Definition and classification of textile fibers on the basis of their sources. Essential and desirable properties of textile fibers. Advantages and disadvantages of natural and manmade fiber. Fiber morphology, properties and uses of cotton, jute, flax, ramie, hemp, sisal and coir fibers, wool fiber and silk fiber. Hands on training based practices

Module-II:

Lecture 8

Pretreatments: Processing sequence in conversion of Grey cotton goods into semi bleached, full bleached and color bleached fabrics. Chemical used in these processes. Introductory knowledge of machinery used in scouring and bleaching of fabric. Hands on training based practices.

Module-III:

Lecture 16

Dyeing: Physical and Chemical principles involved in the application of Dyestuff e.g. Direct, Basic, Acid, Vat, Disperse, Azoic, Pigment dyes etc. to textile materials. Chemicals/auxiliaries used in dyeing. Introductory knowledge of dyeing machines. Printing: Introduction to various methods of printing of textiles, instruments and machinery used. Finishing: Object of finishing and application of various type of finishes, Elementary knowledge of finishing machines. Hands on training based practices.

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Books Recommended:

- i. Handbook of Textile Fibres by J Gordon Cook.
- ii. A Text Book of Fibre Science by Dr. S P Mishra.
- iii. Manmade Fibres by RW Moncrieff.
- iv. Technology Of Dyeing-V. A. Shehnai, Vol. 6.
- v. Chemical Technology of Fibrous Materials- Sadov.
- vi. Textile Processing and properties- Vigo.
- vii. Dyeing and Chemical Technology of Fibres-E.R. Trotman.
- viii. Physical Chemistry of Dyeing-Vickerstaff.
- ix. Cellulosic Dyeing-John Shore (SDC).
- x. Textile Chemistry Vol 3- R. H. Peters.
- xi. Theory of coloration of textiles- C. L. Bird.

Course Outcomes:

At the end of the course, a student will be able

1. To understand about the textile fibers.
2. To learn the usages of fiber.
3. To understand the dyeing process.
4. To fulfill the specially regional and local needs, regarding dyeing and printing of textile material.
5. To get more chances of employment in dyeing and printing textile Industries.

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Faculty of Management

OFFICE CIRCULAR

Date: 11/01/2020

The following value added course are being introduced in management programs in Academic Session Jan – June 2020 :

BBA II Semester: VFOMB 02: Sustainable Development in Management

BBA IV Semester: VFOMB 04: Career Planning and Growth

BBA VI Semester: VFOMB 06: Web Designing

MBA II Semester: VFOMM02 : Basic Course in Social Entrepreneurship

MBA IV Semester: VFOMM 04 : Intensive Training & Placement

Students may contact coordinator faculty of the respective programs for Registration.

Dr Shilpi Khandelwal
Dean / HOD
Faculty of management
Jagannath university



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Prof. _____
Jagan Nath University, Jaipur

VFOMM 02: Basic Course in Social Entrepreneurship

Course Objectives:

The course will enable the student to

1. Have a fundamental understanding of Social Entrepreneurship
2. Have a basic understanding of the means to raise a social enterprise
3. Understand the emerging career opportunities and New Directions in the field

Course outcomes:

After completing this course, the student will :

1. Have a fundamental level of understanding relating Social Entrepreneurship
2. Imbibe deep knowledge on the means for establishing Social Enterprise
3. Develop an understanding of the role and importance of Social Enterprise in the Society

Course Contents

Module I Introduction

Lectures - 6

Introduction to Social Entrepreneurship , Need & Reasons for growth of social entrepreneurship, Similarity & Difference from Non-Profit Organization & Social Service Providers

Module II Relationship of Social Enterprise

Lectures - 6

Relationship of social enterprise with other companies and markets, Legal structure of social enterprise , Future & Impact of Social Enterprise on CSR & Non-Profit Social Service.

Module III Raising a Social Enterprise

Lectures - 6

Choosing the right ideas for Social Enterprise, Formulation of business plan, Funding decision for social enterprise, Concept of a Social Impact Investor

Module IV Social Enterprise Business Models

Lectures - 6

Financial Risk Analysis , Source of Funds , Scale -Up Models , Exit Strategy for Social Enterprise.

Module V Directions for Social Entrepreneurs

Lectures - 6



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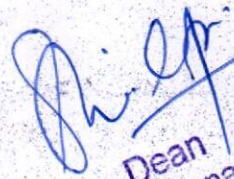
Ecosystem for Social Enterprise, Global Competition in Social Enterprise Development ,Successful case studies of social entrepreneurship ,New Directions for Social Enterprise , Emerging Career Opportunities.

Text Books:

1. Social Entrepreneurship :What Everyone Needs To Know , David Bornstein & Susan Davis , Oxford University Press

Suggested Readings:

1. Social Entrepreneurship in India : Quarter Idealism & a pound of Pragmatism , Madhukar Shukla , Sage Publication
2. Building Social Business : The New Kind of capitalism that serves Humanity `s Most Pressing Needs , Md.Yunus with Karl Weber ,Perseus Book Group
3. The Unfinished Social Entrepreneur , Jonathan .C.Lewis , Red Press Publication


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VFOMM 04: INTENSIVE TRAINING AND PLACEMENT PROGRAM

Course Objectives:

1. To provide student with an understanding of the requirements of the industry.
2. To encourage students to use a wide range of skills, and acquire open, critical and responsible attitudes.
3. To enhance the competitiveness & presentation ability of the students

Course Outcome:

After completion of this course, students will be able to:

1. Debate on the impact of various business environmental factors on the organization
2. Identify the key issues in daily business situations
3. Develop presentation and profession skills to meet the corporate requirements.

Lectures-06

Module I Introduction

Overview of Industrial Sectors , Functional Departments in an Organization , Job Profiles in Functional Departments, Job Description – Description and Function, Overview of the Placement Process , Corporate Expectations of an Intern , Corporate Expectations of a Rookie.

Lectures-06

Module II Role Play

Overview of Role Play exercise , Steps to success in Role Play , Exercise 1 : The Angry Customer , Exercise 2 : Internal Negotiation , Exercise 3 : Consulting , Exercise 4: Difficult/Vulnerable Patients , Exercise 5 : Sales

Lectures-06

Module III Business Etiquette Training

Role and Importance of. Etiquette in Business Transactions , Types of Etiquette expected of an Intern / Rookie, Phone Etiquette : Tips and Training, Business Dress



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Etiquette : Tips and Training, Office Etiquette : Tips and Training, Professional Conduct : Tips and Training, Interview Etiquette : Tips and Training

Lectures-06

Module IV Mock Aptitude Tests

Role and Importance of Aptitude Test in Recruitment Process, Aptitude Test 1: Numerical Ability , Aptitude Test 2: Diagrammatic Reasoning , Aptitude Test 3: Data Interpretation, Aptitude Test 4:Critical Reasoning , Aptitude Test 5: Spelling , Aptitude Test 6: Sentence Completion , Idioms, Paragraph Completion

Lectures-09

Module V Mock Group Discussion & Mock Interview

Role and Importance of Group Discussion in Recruitment Process, Tips for success in Group Discussion , Mock Group Discussion on Current Affairs , Mock Group Discussion on Social Issues , Mock Group Discussion on Business & Economics , Mock Group Discussion on Education, Mock Group Discussion on Indian Politics, Mock Group Discussion on Sports, Mock Group Discussion on Management Issues

Role and Importance of Interview in Recruitment Process, Tips for success in Interview , Mock Interview based on general discussion , Mock Interview based on technical skills , Mock Interview with high component of stress , Mock Interview based on HR skills.

Text Books:

1. Priyadarshi Patnaik : Group Discussion & Interview Skills, Foundation Books
2. Aggarwal R. S : Quantitative Aptitude for Competitive Examinations , S.Chand Publications

Suggested Readings:

1. Edgar Thorpe: Course in Mental Ability and Quantitative Aptitude for all Competitive Examinations, McGraw Hill Education
2. Shital Kakkar Mehra : Business Etiquette : A Guide For The Indian Professional , HarperCollins Publishers India



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VFOMB 02: Sustainable Development in Management

Course Objectives:

The course will enable the student to

1. Have a fundamental understanding of challenges facing the companies
2. Have a basic understanding of the role and importance of sustainable development with respect to modern business environment
3. Understand Sustainable Development concepts and their role in contemporary business.

Course outcomes:

After completing this course, the student will :

1. Have a fundamental level of understanding relating Sustainable Development
2. Imbibe deep knowledge on the means for achieving Sustainable Development
3. Develop an understanding of the role and importance of sustainable for companies

Course Contents:

MODULE I

Introduction

Lectures - 6

Economic Outlook of World Economy , Sectoral Outlook of Industry in India :
Challenges faced by companies in India.

MODULE II

Importance of Sustainable Development

Lectures - 6

Concept , Definition of Sustainability , Importance of Sustainable Development for
companies, Being climate positive

MODULE III

Achieving Sustainable Development

Lectures - 6

Means for achieving sustainable development –TQM , Lean , Six Sigma , Green
Accounting

MODULE IV

Role of HR

Lectures - 6



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Role of Human Resource in achieving sustainable development , Benchmarking best HR practices and policies supporting sustainable development

MODULE V

Sustainable Development for Stakeholders

Lectures - 6

Importance of sustainable development for customers, community and government, Concept of Corporate Social Responsibility , , Benefits of Sustainable Development to Stakeholders

Text Books:

1. **Sustainable Development Strategies , OECD ,UNDP,Taylor & Francis Ltd.**

Suggested Readings:

1. The Indian Economy , Sanjiv Verma , Unique Publishers
2. Total Quality Management , 3 Rd Edition , Poornima .M.Charantinath, Pearson
3. Human Resource Management , 8th Edition , K. Aswathappa
4. Strategic Corporate Social Responsibility : Stakeholders in a Global Environment , 2nd Edition , William B. Weather Jr, David Chandler

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Jagan Nath University, Jaipur



VFOMB 04: Career Planning and Personal Growth

Course Objective:

- To make the students aware about the importance of career planning.
- To learn strategies for coping stress, anger and emotions.
- To assess themselves and to set specific and achievable goal.

Course Outcome:

After completion of this course, students will be able to:

- Understand the significance of planning a good career to stand strongly and successfully in today's competitive environment.
- Analyze and overcome negative stress and emotion for their personal growth and development.
- Gain self awareness and importance of goal to get clear vision in their life.

Course Contents

- Module I** **Career Planning-** Key definition, Importance, Theories of Career Choice – Structured Theory, Process Theory & Cognitive Information Processing Theory (CIP).
- Module II** **Skills and Types of Skills** – Self Talk, Self Awareness, Monitoring and Control. Goal Setting – Concept of SMART Goal, its importance in today's scenario & Four P's of goal setting.
- Module III** **Self Assessment**– Personality Type & Leadership Style. Time Management, Anger Management- Understanding the Anger and Gaining control over anger.
- Module IV** **Self Confidence-** Meaning & Techniques to improve self confidence. Stress Management- Understanding the Stress & Techniques of Managing the stress.
- Module V** Critical Thinking, Techniques of Positive thinking, Public Speaking Techniques, Emotional intelligence & Work Life balance.

Suggested books:

1. Duckworth, A. (2016), *Grit- Passion, Perseverance and the Science of Success*, Collins.
2. Burnett, B. & Evans, D. (2016), *Designing Your Life: Build a Life that Works for You*, Chatto Windus.



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Jagan Nath University, Jaipur

VFOMB 06: Web Designing

Course Objectives:

1. To familiarize the students with various Web based packages to develop customize web site.

Course Outcomes

1. Students will be able to Understand the basics of web Designing and of designing website.
2. It will help in the foundation for new web designers to become better web design programmer

Module-I

Lectures:- 6

An Introduction to the World Wide Web

Concepts of Web Technology, Web Browsers, Internet Explorer, Netscape Navigator Internet and Intranet, Concepts of web Server like IIS, Apache, Web logic , Search engines and types

Designing and constructing your Web site

Developing Content, Designing Individual Pages, Designing & constructing your Web site

Implementing your Web Site with ISP (Internet service provider), Extensions of web sites and mark- up languages, Web design Tools

Concept of client side and server side web

Module-II

lectures:-6

HTML : BASICS

What is HTML?, HTML Basics, Document Tags, Container and Empty Tags, Entering Paragraph Text on your Web page, The
 Tag, The Comment Tag

Working with HTML Text

Working with HTML Text, Emphasizing Text Implicitly And Explicitly, The <BLOCKQUOTE> Element

Pre-formatting Text, The <DIV> Tag, The Tag, The <BASEFONT> Tag

Using Lists in Web Document



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Module III

lectures:- 6

Graphics for web pages and Working with links

Choosing the correct Graphics File Format, Color in images, Loss of image quality due to compression, Adding inline image to web page, Scaling down an image, Alternative Text for the tag , Understanding Imagemaps, Working with links, Relative and absolute links

Tables, Frames and Forms, Creating Tables, Forms, Frames

Module-IV

Lectures:- 6

Creating your Web Site with Dreamweaver

Introduction to Dreamweaver, Interfaces, Setting properties for web page., Text formatting

Adding Hyperlinks in web sites, Working with bookmarks and mailto links

Working with images, rollover images and image mapping, Create table and sorting table data

Export data from table, Inserting framesets and nested frameset, Creating forms in dreamweaver

Using Stylesheet in Dreamweaver

Module-V

Lectures:6

Animation In Web

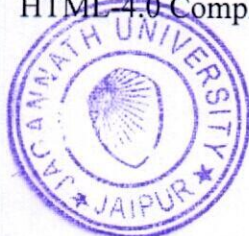
Flash Introduction, Layers, Drawing with flash, types and text effects, Creating symbols and Movie clips, Animating with flash MX

Text Books:

1. HTML, DHTML –Ivan Bayross
2. Dreamweaver in 24 days by SAMS teach yourself Techmedia
3. Flash Mx in 24 hours by Techmedia

Suggested Readings:

1. Internet Complete Reference- Tata McgrawHill
2. HTML 4.0 Complete Reference-BPB Publication



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07th January, 2020

NOTICE

Introduction of Value Added Course

The Faculty of Architecture & Planning is planned to conduct a certification course on basics of vernacular, architectural acoustic and concept of green building & its application for all five years. The courses are schedule from 12th January, 2020 for 30 hours. The timings are 8:55 am to 9:55 am on Sunday and Monday. All registered students must attend the classes without fail. The following faculty members are assigned to handle the course:

List of Value Added Course

S.No.	Course Code	Name of Course	Assigned Faculty
1	VAC002	Concept of Green Building & its Application	Ar. Aditi Kapoor
2	VAC003	Principles of Architectural Acoustic	Ar. Abhishek Verma
3	VAC004	Sustainable Architecture	Ar. Praveen Jangid

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Jagan Nath University, Jaipur**

Dear Head of Department



Name of Course: Sustainable Architecture
Course Code: VAC004
Syllabus

Objective

1. To introduce the students to the theoretical and practical aspects of sustainable design and the various technologies involved in executing them. To familiarize the student with some of the acclaimed sustainable buildings with various tools, design methodology, resource optimization and innovative approaches to eco-design within the past decade.
2. Understanding of different green building material.
3. Understanding Different passive techniques.

Outcome:

After completion of this course student will be able to,

1. Conceptualization of large span constructions.
2. Learnt how to design comfort space.
3. Learnt different strategy of natural cooling and heating process.

Content

Module 1 (6 Hr.)

1. Fundamentals of sustainability, definitions, historical development of the concept of sustainability and sustainable development, Sustainable architecture as a subset of sustainable development.

Module 2(6 Hr.)

1. Impacts of built environment on natural environment, Sustainable Development, Agenda 21, UN Goals
2. Characteristics of sustainable architecture, fundamentals of passive designing and climatology, thermal comfort, visual comfort, acoustic comfort

Module 3(6 Hr.)

1. Sustainable buildings, parameters of sustainable buildings, Green buildings, indicators of green buildings, Terminologies related to sustainable buildings- carbon footprint, life cycle analysis,

Module 4(6 Hr.)

1. Site development- site selection, UHI, Public Transport, vegetation, development footprint, storm water runoff, SRI
2. Estimating the use, reductions in consumption, recycling, reuse, landscape requirement, strategies and technology for water conservation
3. IEQ- day lighting, views, CFC-free, ventilation, comfort, VOC free.

Module 5(6 Hr.)

1. Materials and Resources- segregation, recycling, reduction in waste, reuse of materials and building, renewability; Energy- energy efficiency, energy conservation, ECBC, renewable energy, M&A;
2. Vernacular architecture and sustainability, culture and sustainability

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VFOMB 04: Career Planning and Personal Growth

Course Objective:

- To make the students aware about the importance of career planning.
- To learn strategies for coping stress, anger and emotions.
- To assess themselves and to set specific and achievable goal.

Course Outcome:

After completion of this course, students will be able to:

- Understand the significance of planning a good career to stand strongly and successfully in today's competitive environment.
- Analyze and overcome negative stress and emotion for their personal growth and development.
- Gain self awareness and importance of goal to get clear vision in their life.

Course Contents

- Module I** **Career Planning-** Key definition, Importance, Theories of Career Choice – Structured Theory, Process Theory & Cognitive Information Processing Theory (CIP).
- Module II** **Skills and Types of Skills** – Self Talk, Self Awareness, Monitoring and Control. Goal Setting – Concept of SMART Goal, its importance in today's scenario & Four P's of goal setting.
- Module III** **Self Assessment**– Personality Type & Leadership Style. Time Management, Anger Management- Understanding the Anger and Gaining control over anger.
- Module IV** **Self Confidence-** Meaning & Techniques to improve self confidence. Stress Management- Understanding the Stress & Techniques of Managing the stress.
- Module V** Critical Thinking, Techniques of Positive thinking, Public Speaking Techniques, Emotional intelligence & Work Life balance.

Suggested books:

1. Duckworth, A. (2016), *Grit- Passion, Perseverance and the Science of Success*, Collins.
2. Burnett, B. & Evans, D. (2016), *Designing Your Life: Build a Life that Works for You*, Chatto Windus.



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Jaipur (Rajasthan) INDIA
Value Added Course:
Management of School (VMS)

Course Objectives:

- To develop students for overall school activities.
- To understand and aware about importance, role and contents of school management.
- To improve his skills for management of school and documentation.

Module-I:

8 Hours

- Concept, Meaning and Definition of Management of School.
- Educational Leadership: Strategy Development and Management Decision Making in Education
- Administration and Management of Human Resources in Education
- Decision Making and Crisis Management in Education
- Classroom Management
- Educational Policy and Comparative Analysis of Educational Systems
- Applications of New Technologies in Education and Educational Administration

Module-II:

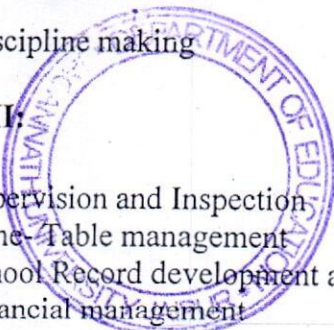
8 Hours

- Infrastructure Development of School
- Staff management
- Role of Staff members
- Curricular Activities Development
- Managing and Organization curricular activities
- Work of school management
- Work Distribution in Teachers
- Discipline making

Module-III:

8 Hours

- Supervision and Inspection
- Time-Table management
- School Record development and maintenance
- Financial management
- Library management
- Assessment and Evaluation
- Health and Care Activities



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- Parents and Teacher Communication

Course Outcomes: On completion of the course, learner will be able to—

1. The field of Educational Management
2. Reaching decisions and handling crises in education
3. Effectively dealing with behavior problems at school
4. Software which optimizes the organization of schools and which informs parents and students on school matters

Reference Books:

1. COATES, P. (1993) 'Embracing quality', *Managing Schools Today*, 2(7).
2. COHEN, M. D. and MARCH, J. G. (1983) 'Leadership and ambiguity' in BOYD-BARRETT, BUSH, T., GOODEY, J., MCNAY, I. and PREEDY, M. (eds) *Approaches to Post-school Management*, London, Harper and Row.
3. COLEMAN, J. S., CAMPBELL, E., HOBSON, C, MCPARTLAND, J., MOOD, A., WEINFELD, F. and YORK, R. (1966) *Equality of Educational Opportunity*, Washington, DC, US Government Printing Office.
4. COOPER, C. L. and KELLY, M. (1993) 'Occupational stress in headteachers: a national UK study', *British journal of Educational Psychology*, 63, pp. 130-43.
5. CORCORAN, TH. B. (1985) 'Effective secondary schools' in KYLE, A. M. (ed.) *Reaching for Excellence: an effective schools sourcebook*, Washington, DC, US Government Printing Office.
6. COURT, M. (1994) 'Removing macho management: lessons from the field of education', *Gender, Work and Education*, 1(1), January, pp 33—49.
7. DAVIES, L. (1995) 'The case for leaderless schools' in WATSON, K., MODGEL, S. and MODGEL, C. (eds) *Educational debate and diversity*, London, Cassell.


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Ref. No.: JU/FOA&P/B.Arch./
07th January, 2020

NOTICE

Introduction of Value Added Course

The Faculty of Architecture & Planning is planned to conduct a certification course on basis of vernacular, architectural acoustic and concept of green building & its application for all five years. The courses are schedule from 12th January, 2020 for 30 hours. The timings are 8:55 am to 9:55 am on Sunday and Monday. All registered students must attend the classes without fail.

The following faculty members are assigned to handle the course:

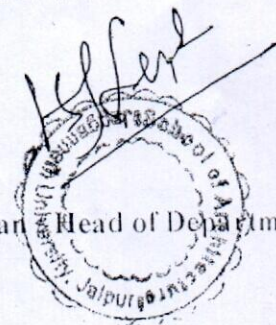
List of Value Added Course

S.No.	Course Code	Name of Course	Assigned Faculty
1	VAC002	Concept of Green Building & its Application	Ar. Aditi Kapoor
2	VAC003	Principles of Architectural Acoustic	Ar. Abhishek Verma
3	VAC004	Sustainable Architecture	Ar. Praveen Jangid

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Dean Head of Department



Name of Course: Sustainable Architecture
Course Code: VAC004
Syllabus

Objective

1. To introduce the students to the theoretical and practical aspects of sustainable design and the various technologies involved in executing them. To familiarize the student with some of the acclaimed sustainable buildings with various tools, design methodology, resource optimization and innovative approaches to eco-design within the past decade.
2. Understanding of different green building material.
3. Understanding Different passive techniques.

Outcome:

After completion of this course student will be able to,

1. Conceptualization of large span constructions.
2. Learnt how to design comfort space.
3. Learnt different strategy of natural cooling and heating process.

Content

Module 1 (6 Hr.)

1. Fundamentals of sustainability, definitions, historical development of the concept of sustainability and sustainable development, Sustainable architecture as a subset of sustainable development.

Module 2(6 Hr.)

1. Impacts of built environment on natural environment, Sustainable Development, Agenda 21, UN Goals
2. Characteristics of sustainable architecture, fundamentals of passive designing and climatology, thermal comfort, visual comfort, acoustic comfort

Module 3(6 Hr.)

1. Sustainable buildings, parameters of sustainable buildings, Green buildings, indicators of green buildings, Terminologies related to sustainable buildings- carbon footprint, life cycle analysis,

Module 4(6 Hr.)

1. Site development- site selection, UHI, Public Transport, vegetation, development footprint, storm water runoff, SRI
2. Estimating the use, reductions in consumption, recycling, reuse, landscape requirement, strategies and technology for water conservation
3. IEQ- day lighting, views, CFC-free, ventilation, comfort, VOC free.

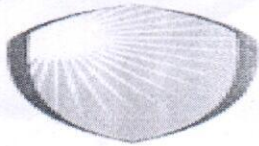
Module 5(6 Hr.)

1. Materials and Resources- segregation, recycling, reduction in waste, reuse of materials and building, renewability; Energy- energy efficiency, energy conservation, ECBC, renewable energy, M&A;
2. Vernacular architecture and sustainability, culture and sustainability

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DEPARTMENT OF EDUCATION

Value Added Course: INTRODUCTION TO ENGLISH SKILLS

Course Code: VIES

Session- 2019-20

Course objectives:

The course content is organized to focus on:

- Understand the four essential skills of English language.
- Able the use English grammar correctly.
- To make them listen, speak, read, and write effectively.
- Improve the speaking ability in English

Course content

Module-I: Listening and Vocabulary Development

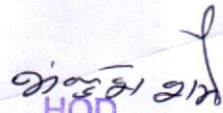
Lecture 3

- Introduction of English.
- Introduction of Listening skill.
- Reasons for Poor Listening.
- Grammar and Vocabulary.(Articles, prepositions, modal auxiliaries, antonyms, synonyms, one-word substitutes)
- Listening for General Content and Specific Information.
- Listening Modes
- Memo

Module-II: Effective Speaking skill

Lecture 8

- Introduction of speaking skill.
- Basic Sounds of English
- General knowledge of conference speaking at seminar.
- Knowledge of Intonation.
- Achieving Confidence, Clarity, and Fluency.
- Public speaking.
- Conversations and Dialogues.
- Workplace communication


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Module-III: Effective Reading and writing skill

Lecture 8

- Introduction of Reading and writing Comprehension.



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Value Added Course:
Management of School (VMS)

Course Objectives:

- To develop students for overall school activities.
- To understand and aware about importance, role and contents of school management.
- To improve his skills for management of school and documentation.

Module-I:

8 Hours

- Concept, Meaning and Definition of Management of School.
- Educational Leadership: Strategy Development and Management Decision Making in Education
- Administration and Management of Human Resources in Education
- Decision Making and Crisis Management in Education
- Classroom Management
- Educational Policy and Comparative Analysis of Educational Systems
- Applications of New Technologies in Education and Educational Administration

Module-II:

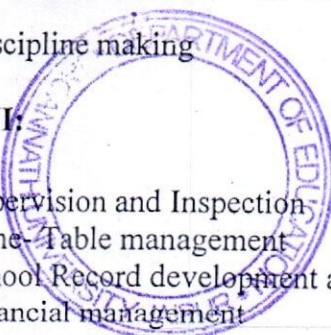
8 Hours


- Infrastructure Development of School
- Staff management
- Role of Staff members
- Curricular Activities Development
- Managing and Organization curricular activities
- Work of school management
- Work Distribution in Teachers
- Discipline making

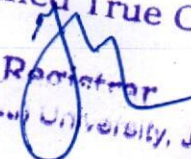
Module-III:

8 Hours

- Supervision and Inspection
- Time-Table management
- School Record development and maintenance
- Financial management
- Library management
- Assessment and Evaluation
- Health and Care Activities




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Faculty of Law

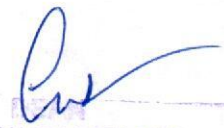
Office circular

Date:- 27-12-19

The following Value added courses are scheduled from Jagannath University in Faculty of Law for Academics Session Jan. to June. 2020

S.No	Subject Name
1.	Legal and Moral values in Law
2.	Right to information Act,2005
3.	Basics of Women empowerment
4.	Principle of Human Rights

Students may contact coordinators of the respective program for registration.


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Jagan Nath University, Jaipur

Legal and Moral values in Law (VLMVL)

Course objective:-

- Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality.
- A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education.
- It contributes in forming true human being, who is able to face life and make it meaningful.
- There are different kind of values like, ethical or moral values, doctrinal or ideological values, social values and aesthetic values.

Course outcome:-

- Leads students through a process of discovering and reflecting on oneself as a spiritual being and moral agent, that is someone who is an individual but also a member of communities, with the relative rights and obligations;
- Seeks to educate them in the notion of self-reflective responsibility and to making something positive of their lives.
- Contributes towards their moral and spiritual capacity to value, appreciate, perceive and critically interpret the world they live in;

Content

Module-I:

Supreme Court Rules 1966 and Supreme Court Rules 1966

- i. Advocates and their Course of Conduct
- ii. Role of Single Judge and Registrar of the Supreme Court
- iii. Types of Petition Entertained by the Supreme Court, Writ petition, Election Petition

Module- II:

Delhi High Court Rules 1967 Delhi High Courts Rules

- iv. Advocates and their Course of Conduct
- v. Role and Power of Single Judge
- vi. Civil and Criminal Jurisdiction of the Court

Module-III:

The Limitation Act, 1963 and The Registration Act, 1908

a. Limitation

- i. Procedural Law: Section 5 Condonation of Delay, ss6-9 Legal Disability, ss14-15 Exclusion of Time of Proceeding in Good Faith in Wrong Court, ss18-19 Acknowledgement
- ii. Substantive Law: S25 Law of Prescription and s27 Adverse Possession, s 29 Saving Clause

b. Registration

- i. Compulsory Registered Documents s17
- ii. Optional Registration s18
- iii. Time and Place for Registration ss23-31

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- iv. Effects of Registration and non Registration ss47-50

**Module-IV:
Bench-Bar Relations**

- a. The Advocates Act, 1961
- b. State Bar Council and Bar Council of India; Duties and Functions
- c. Professional Misconduct and Punishments s35
- d. Role and power of Disciplinary Committee ss36-42

**Module- V:
Legal Ethics**

- a. Duty to Court, Client, Opponent, Colleagues s7 and s49, along with the Rules of the Bar Council India
- b. Duty towards Society

References:

1. *Kailash Rai, Legal Ethics, CLP, 2007 (7th Edn)*
2. *Ramachandran Raju & Gaurav Agarwal, B.R. Agarwala's Supreme Court Practice and Procedure, Eastern Book Company, 2002*

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Course objective:-

- The RTI empowers people to seek information from the government and public organizations and ask for government documents and their copies.
- Through the RTI, citizens know about government decisions and the limitations of the country and the government. RTI promotes transparency and accountability.

Course outcome:-

- Right to Information is just like oxygen for democracy. It stands for transparency. Information would lead to openness, accountability and integrity.
- Besides, apart from ensuring greater transparency it also acts as a deterrent against the arbitrary exercise of public powers. A culture of individual action, political consciousness and public spirit is the basis for the success of democracy.

Content

Module 1

Introduction of Right to Information Act 2005:

History, Background, Objectives, Preamble of Right to Information Act 2005, Obligation of Public Authorities (Section 3 to 11)

Module 2

Right to Information in Global Perspective:

(World right to Know)

- a) United Nations and the Right to Information
- b) The Commonwealth and the Right to Information
- c) The Right to Information in USA
- d) The Right to Information in UK
- e) Rome Convention for the Protection of Human rights and Fundamental Freedoms, 1950

Module 3

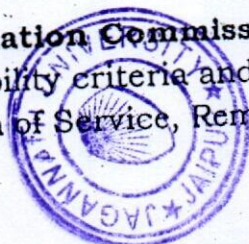
Right to Information as Constitutional rights:

Protection of Article 19(1) (a), Right to privacy, Contempt of Court, Public Interest vis-à-vis Information

Module 4

The Central Information Commission:

Constitutions, Eligibility criteria and Process of Appointment, Term of Office and Condition of Service, Removal of Informational Commissioner



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Module 5

The State Information Commission:

Constitutions, Eligibility criteria and Process of Appointment, Term of Office and Condition of Service, Removal of Informational Commissioner, Right to Information and E-Governance: Electronic Information Dissemination, need for regulation, Jurisdiction in Cyberspace: Problem And perspective

Module 6

Power and Function:

Information Commission, Appeal and Penalties under Right to Information Act 2005, Breach of Confidentiality and Privacy-The Indian perspective An 'offence' under the Indian Information Technologies Act 2000

Module 7

Right to Information and Other Acts, Reports, Bill :

- a. The official Secrets Act, 1923
- b. Public records Act 1993, Public records rules 1997
- c. The Freedom of Information Act 2002
- d. Reports of National Commission to Review the working of the Constitution ,2002(relevant provisions)



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BASICS OF WOMEN EMPOWERMENT (VBWE)

Course Objective: This paper is

- Undertakes, promotes and coordinates both fundamental and applied research on women and development;
- Organizes and assists training programmes for scholars, communicators, members of women's organizations/ cooperatives etc.;

Course Outcomes: - Students graduating with Law of Contract will be able to:

- The principal output of the Commission on the Status of Women is the agreed conclusions on priority themes set for each year.
- Agreed conclusions contain an analysis of the priority theme and a set of concrete recommendations for governments, intergovernmental bodies and other institutions, civil society actors and other relevant stakeholders, to be implemented at the international, national, regional and local level.

Content

Module I:

FUNDAMENTAL CONCEPTS OF WOMEN'S STUDIES

Definition- Objectives of Women's Studies; Importance of Women's Studies; Women's Studies as an Academic Discipline; Role of UGC Centre for Women's Studies; Women's Studies in India and Abroad – Origin and Growth.

Module II:

EMPOWERMENT

Women in Higher Education; Gender issues in Health, Environment, Family welfare Measures, Indecent representation of Women in media; Women in Difficult circumstances; Constitutional.

Module III:

ECONOMIC EMPOWERMENT

Introduction-organized sector, unorganized sector; Role of Women in Economic Development – Female Poverty and Poverty alleviation programmes; Status of Women farmers and land rights; Women Entrepreneurs; Impact of Globalization on working women; National Policy for the empowerment of women 2001.

Module IV:

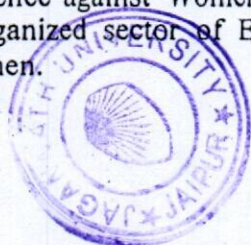
POLITICAL EMPOWERMENT

Political participation of women – Political Socialization- Women leaders in politics- Women in Local Governance- Barriers- Reservation policies- Women's Political Rights: CEDAW.

Module V:

SOCIAL ISSUES REGARDING WOMEN

Issues of Girl child, Female, infanticide and foeticide, Sex Ratio child marriage, Dowry & Property Rights, Violence against Women, Domestic violence, Female Headed Households', Women in the Unorganized sector of Employment, Women's work- Status and problems, problems of Dalit women.



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REFERENCES

1. Amy S. Wharton. (2005). "The Sociology of Gender: An Introduction to Theory and Research". (Key Themes in Sociology) Blackwell Publishing, UK, Indian Reprint, Kiiaso Books, New Delhi.
2. Devaki Jain and Pam Rajput (Ed). (2003). "Narratives from the Women's Studies Family: Recreating Knowledge, Sage, and New Delhi.
3. Jasbir Jain (Ed). (2005). "Women in Patriarchy: Cross Cultural". Rawat Publications, Jaipur.
4. Kumkum Sangari and Sudesh Vaid. "Recasting Women: Eassy in Colonial History".
5. Lerner, Gerda. (1986). "The Creation of Patriarchy". Oxford University Press, New Delhi.
6. Maithreyi Krishna Raj. (1986). "Women Studies in India: Some Perspectives". Popular Prakasham, Bombay.
7. Mala Khullar, (Ed). (2005). "Writing the Women's Movement: A Reader". Zubaan, Kali for Women, New Delhi.
8. Mies, Maria. (1980). "Indian Women and Patriarchy". Concept Publishing Company, New Delhi.

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Principle of Human Rights (VPHR)

Course objective:-

- Describe specific theoretical, conceptual and practical challenges facing the fields of human rights law and sustainable development, adopting an interdisciplinary approach.
- Articulate critical analysis on the relationship between respect for human rights and sustainable development.

Course outcomes:-After studying this course, you should be able to:

- Understand the historical growth of the idea of human rights
- demonstrate an awareness of the international context of human rights
- demonstrate an awareness of the position of human rights in the UK prior to 1998
- understand the importance of the Human Rights Act 1998
- Analyze and evaluate concepts and ideas.

Content

Module -I

A Conceptual Understanding of Human Rights

Human Rights Concept, Definition, Meaning & Nature, Human Values: Liberty, Equality and Justice

Module - II

Administration of Criminal Justice and Human Rights

Role of Criminal Justice System, Administration of Criminal Justice: Ordinary Courts; Special Courts, District Courts, Human Rights Courts, Naya Panchayat, Lok Adalt, Fast-Track Court.

Module -III

Human Rights Problems

Police Atrocities and Custodial Torture, Violence against Women and Children, Communal Violence, Caste and Class Conflict, Terrorism and Insurgency

Module -IV

Rights of the Accused

Rights of Accused; Double Jeopardy, Against Self- Incrimination, Production Before Magistrate, Fair Trial, Speedy Trial, Appeal, Parole and Probation.
Rights of Prisoner: Legal Aid, Access to Justice and Speedy Justice; Right to Compensation, Prison Reforms.

REFERENCES

- Bava, Noorjahan, (ed), (2000), *Human rights and Criminal Justice Administration in India*, Uppal Publishing House, New Delhi.
- Vibhute Baxi, Upendra, (1988), Clemency, Extradition and Death: The Judicial Discourse in Keher Singh, *Journal of Indian Law*, Vol. 30, and No. 4.
- Bhagwati, P.N.,(1985,) Human Rights in the Criminal Justice System, *Journal of Indian Law Institute*, Vol. 27, No. 1.



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- Arora, Nirman, (1999), Custodial Torture in Police Stations in India: A Radical Assessment, *Journal of Indian Law Institute*, Vol. 41, Nos 3 and 4.
- Vibhute, K.I, (1990), *Compensating Victims of Crimes in Indian Society*, Delhi Shubhi
- Ghosh, S.K., (1993), *Torture and Rape in Police Custody*, New Delhi: Asish Publishing House.
- Guttal, G.H, (1986), Human Right: The Indian Law, *Indian Journal of International Law*, vol. 26.
- Vada Kumchery, James, (1991), *The Police and Delinquency in India*, New Delhi: APH Publishing Corporation.

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Department of Engineering & Technology, Jagannath University, Jaipur is offering Value Added Certificate Courses that are being conducted in various streams to enhance student's knowledge and skills in their field of technical study. Courses offered are chosen based on current trends, relevance and value in the job-market.

Duration: 30 hours

Timings: 10:00AM to 11:00 AM

Date of Commencement: January 13, 2020.

Registration & other details: Registration will open from 17.12.2019 till 10.01.2020. Students may contact **Er. Sudhanshu Mathur** Departmental Incharge, Value Added Courses for further queries.

Course Certificate: Certificate will be provided as per performance in test/viva at the end of the Course.

Participants: Students from JAGANNATH UNIVERSITY may apply.

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Course Title (VACE T009)	<i>Hardware and Networking Essentials</i>
Course Details	Introduction, CPU, Memory devices, Study of Motherboard RAM, ROM, CMOS, POST, BUS, Ports ,Mother Board, Motherboard troubleshooting, Key Board, Switches, Keyboard organization, Wireless Key board Trouble shooting, mouse type scroll & optical mouse, Trouble shooting Mouse, Working of LED,DMP, Ink Jet, Laser Printer, line printer, MFP and its Trouble shooting. Scanners and its trouble shooting. Plotters System Software, Windows and other S/w & Anti Virus, Boot Process, Setting of CMOS, Setup, PC Tools, OSI Model, Network hardware, Interconnecting of network hardware, Dynamic and Static IP addressing, Client – Server network, Basic Administration, Installing Client and Server OS, DHCP server and DNS server, Remote Management. Managing Linux Server, Remote management using telnet, DHCP server, Apache web server, Bind DNS server, Troubleshooting Linux Network, The Network File System (NFS), Samba Server, Linux Systems.
Faculty	Dr. Renu Bagoria
Course Title (VACE T014)	<i>Foundations of Cryptography</i>
Course Details	Introduction, Computer Security Concepts, Security Attacks, Model for Network Security, Symmetric Cipher Model, Steganography, Euclid’s Algorithm, Traffic Confidentiality, key distribution. Public Key Crypto System and RSA, Principles of Public-Key Cryptography, Applications, Requirements & Security, Digital Signature Standards, Electronic Mail Security, S/MIME, Security and Web Security, Transport Level Security, Wireless Network Security, System



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	Security, Challenges, Attacks based on Communication.
Faculty	Mr. Suraj Yadav
Course Title (VACET012)	<i>Introduction to Block-chain Technology and Applications</i>
Course Details	<p>Introduction, Public Ledgers, Bitcoin, Smart Contracts, Block in a Block chain, Transactions, Distributed Consensus, Cryptocurrency to Block chain, Permissioned Model, Security aspects, Bitcoin and Block chain, P2P Network, Transactions in Bitcoin Network, Consensus in a Bitcoin network, Proof of Work (PoW) Bitcoin PoW, Proof of Burn and Proof of Elapsed Time.</p> <p>Application of Block chain, Cross border payments, Know Your Customer (KYC), Food Security, Block chain enabled Trade, Trade Finance Network, Supply Chain Financing, Hyperledger Fabric, Membership and Access Control</p>
Faculty	Mr. Hukum Saini
Course Title (VACET010)	<i>Search Engine Optimization Techniques</i>
Course Details	<p>Basics for SEO: What is Domain, Basic Knowledge of World Wide Web, Difference between Portal and Search Engines, What is SEO? Types of SEO Techniques, Black hat techniques, White Hat techniques. How Search Engine works,</p> <p>Keywords Research and Analysis: Market Research, Keyword Research and Analysis, Keyword opportunity, Competitors Website Analysis SWOT Analysis of Website, How to Choose Best Keywords, <i>certified free copy</i> Keyword Research</p> <p>On-page Optimization: The Page Title, Meta Descriptions & Meta Keywords, Headings, Bold Text, Domain Names & Suggestions, Canonical</p>





	<p>Tag ,Meta Tags ,Images and Alt Text ,Internal Link Building ,The Sitemap ,Invisible Text ,Server and Hosting Check Robots Meta Tag ,Doorway Pages ,301 Redirects ,404 Error ,Duplicate content</p> <p>Off-page Optimization: Page Rank ,Link Popularity ,Link Building in Detail ,Directory Submission ,Social Bookmark Submission ,Blog Submission ,Articles, Links Exchange ,Reciprocal Linking ,Posting to Forums ,Submission to Search Engine ,RSS Feeds Submissions ,Press Release Submissions ,Forum Link Building ,Competitor Link Analysis.</p> <p>Analytics : Google Analytics ,Installing Google Analytics ,How to Study Google Analytics ,Interpreting Bars & Figures ,How Google Analytics can Help SEO ,Advanced Reporting ,Webmaster Central & Bing/Yahoo ,Open Site Explorer ,Website Analysis using various SEO Tools available</p> <p>SEOTools: Keyword Density Analyzer Tools ,Google Tools ,Yahoo / Bing Tools ,Rich Snippet Text Tools ,Comparison Tools ,Link Popularity Tools ,Search Engines Tools ,Site Tools ,Miscellaneous Tools</p> <p>SEO Reporting Google analysis, Tracking and Reporting, Reports Submission, Securing Ranks</p>
Faculty	Mr. Vijay Mohan Shrimal
Course Title (VACE T022)	Workshop Maintenance
Course Details	<p>Thread locking: How a threaded fastener works, Advantages and disadvantages of mechanical locking devices, Chemical Threadlockers- How they work, Product selection- How to select the right product, how substrates affect performance, Temperature and other environmental factors, Application techniques.</p> <p>Gasketing: Why gaskets fail, Design and service factors, Gasket materials and dressings, Assembly problems, Form-in-place gasketing basics, Product selection- Rigid cast flanges vs. flexible flanges, Service factors, Anaerobic and silicone (RTV) gasketing.</p> <p>Thread Sealing: Types of threads and fittings, Causes of leaks, Chemical Thread Sealants, How they work, Product selection, How to select the right product, How substrates affect performance,</p>



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	<p>Temperature and other environmental factors, Application techniques.</p> <p>Retaining: Types, classes, and typical uses of, cylindrical fittings, Potential fit problems and possible solutions, Retaining Compounds, How they work, Product selection-How to select the right product, How substrates affect performance, Temperature and other environmental factors, Application techniques, Hands-on demonstrations.</p> <p>Explain and follow 5-S principles in work area, manage time, materials and cost effectively, Use resources in a responsible manner, Work with colleagues to integrate work, Follow the organization's policies and procedures for working with colleagues, and apply balanced judgment to different situations.</p>
<p>Faculty</p>	<p>Mr. Avinash Nath Tiwari</p>
<p>Course Title (VACET D17)</p>	<p><i>Heating, Ventilation and Air conditioning</i></p>
<p>Course Details</p>	<p>Principles of thermodynamics, Pressure and temperature relationship, Fundamentals of heat transfer, Fundamentals of fluid flow, Introduction to psychrometry, the properties of air Understanding the psychrometric charts. Air purification methods Thermodynamics of the human body Role of clothing Comfort and comfort chart Design considerations Requirements of temperature and humidity-high heat load industries Recommended inside design conditions Outside summer design conditions for some foreign cities Indoor Air Quality Design of ventilation systems .</p> <p>Design considerations, Internal Sensible and Latent Heat Load components, Design condition - indoor & outdoor conditions, External Load components, miscellaneous heat sources, Fresh air load. Heating systems, Hot water heating system: Steam heating systems, Electric heating systems Air-conditioning systems: General Air handling units, Functional variations in the design. Capacity calculation of an air handling unit. Different VAV systems. Air flow and pressure losses. Duct design, Air distribution system inside</p>



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	<p>space, Ventilation systems. Desired properties of an ideal insulating material. Factors affecting thermal conductivity, Types of insulation materials and Insulated systems. Importance of relative humidity for the selection of insulation. Air-conditioning equipment, Air filters, Humidifiers-Dehumidifiers, Fans and blowers.</p> <p>Methods of refrigeration, Air refrigeration system, Vapour compression refrigeration system. Absorption refrigeration system, Refrigeration equipment. Elements of control, Types of control system. Installation charging the refrigeration unit. Adding oil to the compressor other service operations maintenance. Troubleshooting, The greenhouse effect, History of CFCs. Ozone depletion by CFCs and the greenhouse effect. Future refrigerants to replace CFCs</p>
<p>Faculty</p>	<p>Mr. Amit Kumar Saraf</p>
<p>Course Title (VACET 029)</p>	<p><i>Assembling and Testing of Electrical Equipment</i></p>
<p>Course Details</p>	<p>Specification, wiring, dismantling, fault investigation, repairing, assembling and testing the following electrical appliances- Electric heater Electric immersions heater, Room heater, Electric kettle, Electric soldering iron</p> <p>Inspection and checking of storage batteries, Trouble and its shootings, Repair of storage batteries Transformer inspection, Periodical overhauling of transformer, Location of transformer defects, Winding and core repairs, Bushing repairs, Repair and maintenance of conservator, Dismantling and assembling of transformer</p> <p>Identification of terminals of D.C. compound motors, Testing of armature and commutator, Over hauling of D.C. Machine, Repairing of field winding, Sparking at brushes and its remedies Commutator and brush mechanism and its defect, A. C. Motors-Different tests on 1-ϕ capacitor type</p>



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A.C. motor-Open capacitor, Short capacitor, Change of value, Test for open and short circuits faults, Checking of centrifugal switch, Over hauling, dismantling and assembling of ceiling fan and table fan

Faculty Dr. Ramesh Bharti

Course Title (VACETO31) **Sub-Station & Control panel designing**

Course Details

Definition of substation, necessity of substation, essential features, types of substation – advantages and disadvantages, single line diagram of substation, List and functions of each component of substation. Auxiliary systems, Overhead Earthing screen, Sub-station Earthing system Bus bar configuration, Tests on Bus bars. Types of isolators and ratings, Load Break switches, Maintenance of isolators

Tests on relays, Test equipment, Static relays, Digital Relays, Maintenance of relays

Preliminary tests, Final tests, Impulse test, Partial discharge test, Transformer maintenance. Current Transformer tests, Potential Transformer tests. CT and PT maintenance. Tests and maintenance of insulator

Faculty Ms. Sushma Lohia

Course Title (VACET001) **Application of Stadd Pro**

Course Details

Overview of Structural Analysis and Design, Introduction to STAAD Pro. V8i, Getting Familiar with STAAD Pro. Workspace, Staad Editor, GUI Structure Wizard. Creating a New Project and U Global Coordinate System Vs.Local Coordinate.

Introduction to File, Edit, View, Selection, Geometry, Commands, Analyze, Mode. Introduction to Snap Node/Beam. Insert Node and Add Beam, Translational Repeat, Circular Repeat, Move, Rotate, Mirror, Member Offset. Column and Beam Design, Snap Plate, Create



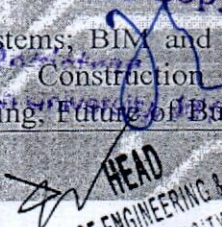
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	<p>infill plates, General Plate Mesh, Parametric Modeling. Analysis of Framed Structure including Slabs, Member Truss, Run Structure Wizard, Plate Thickness. One Way Slab Design, Two way Slab Design, Staircase Design.</p> <p>Shear Wall Design, Lift Room Modeling, Water Tank Design, Solid Modeling and design, Steel Design, Interactive Steel Design, Cylinder and Reverse Cylinder Coordinate System, Isolation Foundation, Combined/Strip Foundation, Mat Foundation.</p> <p>Member cable Specification, Tension/Compression Specification, Table Member Property, Design of Overhead Transmission Line Tower, Bridge Deck Design using STAAD Beava, Pushover Analysis, Pile Cap Design, Import AutoCAD Models, Report Setup, Plotting.</p>
Faculty	Mr. Devashish Kumar Singh
Course Title (VACET 003)	Building Information Modeling
Course Details	<p>Introduction to Building Information Modeling (BIM) discussions of the Roles and Impacts of BIM in the Design, Construction Engineering and Management, Infrastructure Engineering and Facility. Define BIM; Describe workflow in using BIM in the building lifecycle; Perform model-based cost estimating; Perform 4D simulations; Apply BIM to reduce error and change orders in capital projects.</p> <p>Model-based Cost Estimating , Construction Scheduling and 4D Simulation, Design Coordination , BIM to the Field, Evaluate and communicate your ideas related to the use of BIM in the building life cycle.</p> <p>Management; Revit Architecture, Structure, and MEP; Creating Sets, Building Elements, Structural Systems, and MEP Systems; BIM and Clash Detection; BIM and Construction Cost Estimating and Scheduling, Future of Building</p>



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	<p>Information Modeling. Skills and information needed to effectively use an existing Building Information Model (BIM) in plan execution for a building construction project, implementation of BIM concepts throughout the lifecycle of a building, from planning and design, to construction and operations.</p>
Faculty	Mr. Indranil Roy
Course Title (VACET 005)	Importance of software in civil Engineering
Course Details	<p>Overview of different software used in Civil Engineering, Introduction to basic softwares like AutoCAD, STAAD Pro, etc., Getting Familiar with different aspects and importance of each software.</p> <p>Study and Modeling of basic structural members like beam, column, slab, foundation and other members in detail and also focusing on their composition</p> <p>Softwares used for Bridge design, Canal design, Dam, Culvert, Road Designing, etc., and the authentication of the software used.</p> <p>Results, Combinations, Design of Elements using softwares and their importance in analyzing and designing different structures.</p> <p>Importance of softwares in construction and their necessity in future. Important softwares to be learned according to different job profiles from Civil Prospective.</p>
Faculty	Ms. Shashi Sharma



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Dr. Ramesh Bharti
HOD, Department of Engineering & Technology

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Hardware and Networking Essentials
Course Code: VACET009
B.Tech II Semester(CS)

Syllabus

Objective

- A corporate or mobile environment with a high level of face-to-face client interaction. Job titles include enterprise technician, IT administrator, field service technician, and PC technician.
- A remote-based work environment where client interaction, client training, operating systems, and connectivity issues are emphasized. Job titles include remote support technician, help desk technician, call center technician, IT specialist, and representative.
- Settings with limited customer interaction where hardware-related activities are emphasized. Job titles include depot technician and bench technician.

Outcome:

After completion of this course student will be able to

- Protect herself or himself against accidents and injury, protect equipment from damage, and protect the environment from contamination.
- Explain the purpose of preventive maintenance and identify the elements of the troubleshooting process
- Explain, install, and navigate an operating system; upgrade components based on customer needs and perform preventive maintenance and advanced troubleshooting.
- Describe, remove, and replace select components of a laptop; upgrade components based on customer needs and perform preventive maintenance and advanced troubleshooting.
- Describe, remove, and replace select components of a printer/scanner; perform preventive maintenance and troubleshooting.
- Describe and install a network; upgrade components based on customer needs and perform preventive maintenance and advanced troubleshooting.
- Perform advanced installation of a desktop computer tower; select components based on customer needs and perform preventive maintenance and advanced troubleshooting.

Content

Module 1 (10Hr)

Input & Output Devices, their types and specifications, CPU, Memory devices types primary and secondary. Study of Motherboard RAM, ROM, CMOS, POST, BUS, (Address, Data, SYSTEM) Connections of various devices such as Display Adapter, Ports (Serial, Parallel, USB)& Modem on the Mother Board. Importance of CPU cooling, Motherboard troubleshooting.



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Module 2 (8 Hr)

Key Board: Switches, Keyboard organization, Key board type, Wireless Keybaord Trouble shooting. Mouse: Mouse type Scroll & Optical Mouse, Function Connecting Mouse, Trouble shooting Mouse.


Ports Modems Printers: Working of LED, DMP, Ink Jet, Laser Printer, line printer, MFP (Multi Functional Printer and its Trouble shooting. Scanners Working method and its trouble shooting. Plotters System Software, Application Software driver Software Installation, Windows and other S/w & Anti Virus, BOOT PROCESS : Setting of CMOS, Setup, PC TOOLS


Module 3 (15 Hr)

Fundamentals of Computer Networking in Windows System, OSI Model, Network hardware, Interconnecting of network hardware, Workgroup and Domain Networks, Preparing network cables, Dynamic and Static IP addressing, Client – Server network, Basic Administration, Installing Client and Server OS, Implementing Domain Network using Active Directory, Installation of server roles: file server, application server, DHCP server and DNS server, Remote Management. Configuring Basic Linux Networking, Managing Linux Server, Remote management using telnet, ssh, DHCP server, Apache web server, Bind DNS server, Troubleshooting Linux Network, The Network File System (NFS), Samba Server, Configuring Internet in Linux Systems.

References :

1. IT Essentials I: PC Hardware and Software Companion Guide (Cisco Networking Academy Program) (2nd Edition) 2nd Edition, Cisco Networking Academy (Author).
2. Computer Networking Essentials, By Debra Littlejohn Shinder


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Foundations of Cryptography

Course Code: VACET014

Syllabus

Objective

- To provide introduction to the concept of Network Security Model and Cryptography systems.
- To give the knowledge of Digital Signature and other Security Measures available.
- To familiarize with the various techniques like PGP and S/MIME.
- To showcase IP Security Architecture & Transport Layer Security to identify the vulnerability of the Internet systems and recognize the mechanisms of the attacks.
- To explain the firewall design principles and various intrusion detection system.

Outcome:

After completion of this course student will be able to

- Illustrate the concepts of Network Security and Compare Various Symmetric and Asymmetric Cryptographic methods used for Network Security.
- Classify various Algorithms to be used at various TCP/IP Layers & to operate Digital Signature in Real World Situation
- Summarize different Authentication Techniques & Describe programs like PGP & S/MIME
- Implement IP Security Architecture & Transport Layer Security to identify the vulnerability of the Internet systems and recognize the mechanisms of the attacks, and apply them to design and evaluate counter-measure tools
- Implement Firewall design principles and identify various intrusion detection systems and be able to achieve highest system security

Content

Module 1 (10Hr)

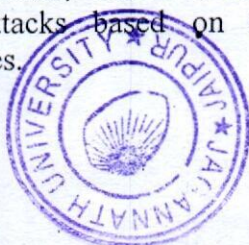
Overview: Computer Security Concepts, Security Attacks, Security Services, Security Mechanism, A Model for Network Security, Symmetric Ciphers: Symmetric Cipher Model, Substitution Techniques, Transposition Techniques, Steganography, Block Ciphers and the Data Encryption, Euclid's Algorithm, Placement of Encryption Function, Traffic Confidentiality, key distribution. Public Key Crypto System and RSA: Prime Numbers, Fermat's and Euler's Theorems, Principles of Public-Key Cryptography, the RSA Algorithm, Key Management, Diffie- Hellman Key Exchange, Cryptographic Hash Function: Applications, Requirements & Security

Module 2 (8 Hr)

SHA-3, Authentication Requirements, Authentication Functions Digital Signatures, Digital Signature Standards. Authentication Application & Electronic Mail Security: Kerberos, X.509 Authentication Service, Pretty Good Privacy, S/MIME. IP Security and Web Security: IP Security overview, IP Security Policy, Encapsulating Security Payload,

Module 3 (15 Hr)

Transport Level Security, Wireless Network Security, System Security: Intruders, Intrusion Detection, Firewalls, Cloud Security: Threats, Cloud Security Controls, Mobile Security: Challenges, Attacks based on Communication, vulnerabilities in Software application, Countermeasures.



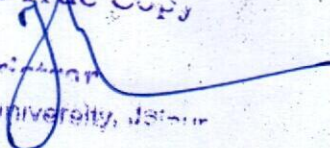
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References:

1. Foundations of Cryptography: Volume 2, Basic Applications, By Oded Goldreich
2. Foundations of Cryptography: A Primer, By Oded Goldreich


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Value Added Courses

Session- 2019-20

Introduction to Block-chain Technology and Applications

Course Code: VACET012

Objective

- To provide conceptual understanding of how block chain technology can be used to innovate and improve business processes.
- To securely interact with them.
- Practical implementation of solutions using block Chain technology.

Outcome:

After completion of this course student will be able to

- Understand block chain technology.
- Develop block chain based solutions and write smart contract using Hyperledger Fabric and Ethereum frameworks.
- Interact with a blockchain system by sending and reading transactions.
- Design, build, and deploy a distributed application.
- Evaluate security, privacy, and efficiency of a given blockchain system.

Content

Module 1 (10Hr)

Introduction: Overview of Block chain and its types, Public Ledgers, Bitcoin, Smart Contracts, Block in a Block chain, Transactions, Distributed Consensus, Public vs Private Block chain, Understanding Cryptocurrency to Block chain, Permissioned Model of Block chain, Security aspects of Block chain

Module 2 (10Hr)

Bitcoin and Block chain: Creation of coins, Payments, Bitcoin Scripts, Bitcoin P2P Network, Transactions in Bitcoin Network, Block Mining, Block propagation and block relay.

Working with Consensus in Bitcoin: Distributed consensus in open environments, Consensus in a Bitcoin network, Proof of Work (PoW) – basic introduction, Hashcash PoW, Bitcoin PoW, Attacks on PoW and the monopoly problem, Proof of Stake, Proof of Burn and Proof of Elapsed Time, Overview of Bitcoin Mining, Mining Pool.

Module 3 (10Hr)



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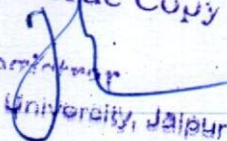
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Application of Block chain: Cross border payments, Know Your Customer (KYC), Food Security, Block chain enabled Trade, We Trade – Trade Finance Network, Supply Chain Financing, Identity on Block chain Application development : Hyperledger Fabric- Architecture, Identities and Policies, Membership and Access Control, Channels, Transaction Validation, Writing smart contract using Hyperledger Fabric, Writing smart contract using Ethereum,

References:

1. Block chain Basics: A Non-Technical Introduction in 25 Steps, By Daniel Drescher
2. Architecture for Block chain Applications, Xiwei Xu, Ingo Weber, Mark Staples
3. Commercializing Block chain: Strategic Applications in the Real World , By Antony Welfare


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Value Added Courses
Session- 2019-20
Search Engine Optimization Techniques (SEO)
Course Code: VACET010
B.Tech VIII Semester

Syllabus

Objective

- overview of search engines and Google results
- the differences between SEO and PPC search rankings
- why SEO is essential for any website
- what are the main ranking factors used by Google
- identifying keywords used by searchers
- planning and implementing optimized website content
- optimizing for local search, images and video content
- website design issues to consider as part of an SEO strategy
- the importance of links and some 'link building' techniques
- tracking the results from an SEO campaign
- The use of Google Search Console and Google Analytics.

Outcome:

After completion of this course student will be able to

By the end of this course, you should be able to:

- describe the main search engine optimization techniques for business websites
- discuss the process of effective SEO, including keyword research, writing optimized content, getting web pages indexed by search engines and tracking the outcomes
- gain access to new online tools and resources to help implement successful SEO campaigns
- discuss 'link popularity' and why it is an important part of the optimization process
- look at ways to develop an effective link building program
- Identify ways Google Ads and Google Analytics can be used as part of a search marketing strategy.

Content

Module 1 (10Hr)

Basics for SEO: What is Domain, Basic Knowledge of World Wide Web, Difference between Portal and Search Engines, What is SEO? Types of SEO Techniques, Black hat techniques, White Hat techniques. How Search Engine works,

Keywords Research and Analysis: Market Research, Keyword Research and Analysis, Keyword opportunity, Competitors Website Analysis SWOT Analysis of Website, How to Choose Best Keywords, Tools available for Keyword Research

On-page Optimization: The Page Title, Meta Descriptions & Meta Keywords, Headings, Bold Text, Domain Names & Suggestions ,Canonical Tag ,Meta Tags ,Images and Alt Text ,Internal Link Building ,The Sitemap ,Invisible Text ,Server and Hosting Check Robots Meta Tag ,Doorway Pages ,301 Redirects ,404 Error ,Duplicate content

Module 2 (10 Hr)

Off-page Optimization: Page Rank ,Link Popularity ,Link Building in Detail ,Directory Submission ,Social Bookmark Submission ,Blog Submission ,Articles, Links Exchange ,Reciprocal Linking ,Posting



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to Forums ,Submission to Search Engine ,RSS Feeds Submissions ,Press Release Submissions ,Forum Link Building ,Competitor Link Analysis.

Analytics : Google Analytics ,Installing Google Analytics ,How to Study Google Analytics ,Interpreting Bars & Figures ,How Google Analytics can Help SEO ,Advanced Reporting ,Webmaster Central & Bing/Yahoo ,Open Site Explorer ,Website Analysis using various SEO Tools available

Module 3 (10 Hr)

SEO

Keyword Density Analyzer Tools ,Google Tools ,Yahoo / Bing Tools ,Rich Snippet Text Tools ,Comparison Tools ,Link Popularity Tools ,Search Engines Tools ,Site Tools ,Miscellaneous Tools

Tools:

SEO Reporting

Google analysis, Tracking and Reporting, Reports Submission, Securing Ranks

References:

1. SEO Made Easy: Everything You Need to Know About SEO and Nothing More by Evan Bailyn
2. The Beginner's Guide to Search Engine Optimization by Matthew Capala
3. Learn and Develop a Strategy for Search Engine Optimisation and Grow Your Business With Google Paperback by James Knight


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Value Added Course

Session 2019-20

B.Tech IV Semester

Workshop Maintenance (VACET022)

Syllabus

Course Objective

1. To assist in performing Workshop maintenance and assist in performing the actual repair/ replacement of various parts/ aggregates in a machine
2. To plan and organize work requirements including various activities, deliverables or work output required in the given time.
3. To maintain set quality standards and use resources in a responsible manner (both material / equipment and manpower)
4. To interact & communicate effectively with colleagues including member in the own group as well as other groups
5. Monitor the working environment and make sure it meets requirements for health, safety and security.

Course Outcome

1. Reduce routine maintenance tasks, Improve safety.
2. Reduce standard repair time, Reduce redundant repairs.
3. Improve safety by eliminating personal injury hazards.
4. Improve Reliability, Availability, and Maintainability.
5. Ensure quality production, Extend mean time between failures.
6. Able to manage the worker and understand the laws of industries.

Module 1(10)

Thread locking: How a threaded fastener works, Advantages and disadvantages of mechanical locking devices, Chemical Threadlockers- How they work, Product selection- How to select the right product, how substrates affect performance, Temperature and other environmental factors, Application techniques.

Gasketing: Why gaskets fail, Design and service factors, Gasket materials and dressings, Assembly problems, Form-in-place gasketing basics, Product selection- Rigid cast flanges vs. flexible flanges, Service factors, Anaerobic and silicone (RTV) gasketing.

Module 2 (10)

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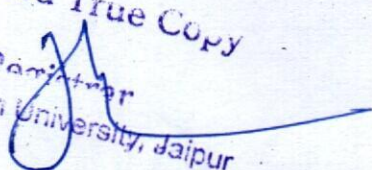
Thread Sealing: Types of threads and fittings, Causes of leaks, Chemical Thread Sealants, How they work, Product selection, How to select the right product, How substrates affect performance, Temperature and other environmental factors, Application techniques.

Retaining: Types, classes, and typical uses of, cylindrical fittings, Potential fit problems and possible solutions, Retaining Compounds, How they work, Product selection-How to select the right product, How substrates affect performance, Temperature and other environmental factors, Application techniques, Hands-on demonstrations.

Module 3 (10)

Explain and follow 5-S principles in work area, manage time, materials and cost effectively, Use resources in a responsible manner, Work with colleagues to integrate work, Follow the organization's policies and procedures for working with colleagues, and apply balanced judgment to different situations.


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Value Added Course

Session 2019-20

B.Tech VIII Semester

Heating, Ventilation and Air Conditioning (VACET017)

Syllabus

Course Objective:

- Preparing students for post program success, both in the work force and in their educational pursuits.
- Preparing students to process information using higher order thinking skills and to engage in sound decision making
- Providing a rich learning environment utilizing research based methods of instruction, state of the art technology, and current resources and materials.
- Maintaining high expectations for all students regardless of educational needs and providing support necessary for achievement.
- Providing a challenging, worthwhile curriculum based on current industry/academic expectations. Specifically and upon successful completion of the program/course for HVAC the students will be able to Identify HVAC systems parts and their associated components and Use analog and digital test equipment.

Outcome:

After completion of this course student will be able to

- This course is designed for engineers and technicians from a wide range of abilities and backgrounds and will provide an excellent introduction to the fundamentals of heating, ventilation and air-conditioning.
- It commences with a review of psychrometric charts and then examines the factors that influence design choices, indoor air quality, load calculations and heating/ventilation and air-conditioning systems.



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- Numerous tips and tricks taught throughout the course make it very practical and topical to your every day applications.
- Provide an overview of the legislative requirements plus the essential steps and responsibilities for the maintenance and repair of HVAC systems
- Outline the technologies available for the efficient energy management using HVAC systems

Content

Module I: Introduction to HVAC (10Hr)

Principles of thermodynamics, Pressure and temperature relationship, Fundamentals of heat transfer, Fundamentals of fluid flow, Introduction to psychrometry, the properties of air Understanding the psychometric charts. Air purification methods Thermodynamics of the human body Role of clothing Comfort and comfort chart Design considerations Requirements of temperature and humidity-high heat load industries Recommended inside design conditions Outside summer design conditions for some foreign cities Indoor Air Quality Design of ventilation systems .

MODULE 2: Heating and Cooling Load Calculation Procedure (12Hr)

Design considerations, Internal Sensible and Latent Heat Load components, Design condition - indoor & outdoor conditions, External Load components, miscellaneous heat sources, Fresh air load. Heating systems, Hot water heating system, Steam heating systems, Electric heating systems .Air-conditioning systems: General Air handling units, Functional variations in the design. Capacity calculation of an air handling unit. Different VAV systems. Air flow and pressure losses. Duct design, Air distribution system inside space, Ventilation systems. Desired properties of an ideal insulating material. Factors affecting thermal conductivity, Types of insulation materials and Insulated systems. Importance of relative humidity for the selection of insulation. Air-conditioning equipment, Air filters, Humidifiers-Dehumidifiers, Fans and blowers.

MODULE 3 – Refrigeration, Installation, Operation, Testing and Maintenance (8Hr)

Methods of refrigeration, Air refrigeration system, Vapour compression refrigeration system. Absorption refrigeration system, Refrigeration equipment. Elements of control, Types of control system. Installation charging the refrigeration unit. Adding oil to the compressor other service operations maintenance. Troubleshooting, The greenhouse effect, History of CFCs. Ozone depletion by CFCs and the greenhouse effect. Future refrigerants to replace CFCs



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Value Added Courses
Session- 2019-20
B.Tech IV Semester

Assembling & Testing of Electrical Equipment (VACET029)
Syllabus

Objective

- To study about basic knowledge of electric wiring.
- To know about the Fundamentals of testing & Repairing of various electric equipment .
- Students will also be familiar with working and maintenance of various domestic electric equipment

Outcome:

After completion of this course student will be able to

- Understand the various type of domestic wiring
- To understand the maintenance of various domestic electric equipment .
- To know about various testing & maintenance of different types AC& DC motors

Module 1 (7Hr)

Specification, wiring, dismantling, fault investigation, repairing, assembling and testing the following electrical appliances- Electric heater Electric immersions heater, Room heater, Electric kettle, Electric soldering iron

Module 2(10Hr)

Inspection and checking of storage batteries, Trouble and its shootings, Repair of storage batteries Transformer inspection, Periodical overhauling of transformer, Location of transformer defects, Winding and core repairs, Bushing repairs, Repair and maintenance of conservator, Dismantling and assembling of transformer

Module 3(13Hr)

Identification of terminals of D.C. compound motors, Testing of armature and Commutator, Over hauling of D.C. Machine, Repairing of field winding, Sparking at brushes and its remedies, Commutator and brush mechanism and its defect, A. C. Motors-Different tests on 1- ϕ capacitor type A.C. motor-Open capacitor, Short capacitor, Change of value, Test for open and short circuits faults, Checking of centrifugal switch, Over hauling, dismantling and assembling of ceiling fan and table fan



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Value Added Courses
Session- 2019-20
B.Tech VIII Semester

Sub - Station & Control Panel Designing (VACET031)

Syllabus

Objective

- To study about Designing of Sub- Station.
- To know about the Fundamentals of power system operation.
- Students will also be familiar with protective relays, trip schematics and wiring diagrams, auxiliary equipment and systems

Outcome:

After completion of this course student will be able to

- Understand the Fundamentals of Sub Station operation
- To understand the maintenance of various relay .
- To know about various testing & maintenance of different types of transformer

Module 1 (13Hr)

Definition of substation, necessity of substation, essential features, types of substation – advantages and disadvantages, single line diagram of substation, List and functions of each component of substation. Auxiliary systems, Overhead Earthing screen, Sub-station Earthing system Bus bar configuration, Tests on Bus bars. Types of isolators and ratings, Load Break switches, Maintenance of isolators

Module 2(7Hr)

Tests on relays, Test equipment, Static relays, Digital Relays, Maintenance of relays

Module 3(10Hr)

Preliminary tests, Final tests, Impulse test, Partial discharge test, Transformer maintenance. Current Transformer tests, Potential Transformer tests. CT and PT maintenance. Tests and maintenance of insulator



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Value Added Courses
Session- 2019-20
Application of STAAD Pro (VACET001)
B.Tech VIII Semester

Syllabus

Objectives:

- Students shall be able to generate 2D/3D drawings or shapes of frames, beam elements, truss elements or any rotations using rectangular or polar coordinate systems.
- Students shall be able to perform 2D/3D analysis based on state-of-the-art Matrix method to handle extremely large job. Linear, p-delta analysis, non-linear analysis with automatic load and stiffness correction.
- Students shall be able to design concrete beams/columns/slabs as per all major international codes.

Outcomes:

After the completion of this course, students will be able to

- know how to use pull down menus, floating toolbars, tool tip
- Know how to have isometric and perspective views and 3D shapes.
- Know how to use built-in command file editor and simple command language.

Module 1 (10 hrs.)

Overview of Structural Analysis and Design, Introduction to STAAD Pro. V8i, Getting Familiar with STAAD Pro. Workspace, Staad Editor, GUI Structure Wizard. Creating a New Project and U Global Coordinate System Vs. Local Coordinate.

Introduction to File, Edit, View, Selection, Geometry, Commands, Analyze, Mode. Introduction to Snap Node/Beam. Insert Node and Add Beam, Translational Repeat, Circular Repeat, Move, Rotate, Mirror, Member Offset.

Module 2 (10 hrs.)

Column and Beam Design, Snap Plate, Create infill plates, General Plate Mesh, Parametric Modeling. Analysis of Framed Structure including Slabs, Member Truss, Run Structure Wizard, Plate Thickness. One Way Slab Design, Two way Slab Design, Staircase Design.

Module 3 (10 hrs.)




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Shear Wall Design, Lift Room Modeling, Water Tank Design, Solid Modeling and design, Steel Design, Interactive Steel Design, Cylinder and Reverse Cylinder Coordinate System, Isolation Foundation, Combined/Strip Foundation, Mat Foundation.

Member cable Specification, Tension/Compression Specification, Table Member Property, Design of Overhead Transmission Line Tower, Bridge Deck Design using STAAD Beava, Pushover Analysis, Pile Cap Design, Import AutoCAD Models, Report Setup, Plotting.


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Value Added Courses
Session- 2019-20
Building Information Modeling
Course Code: VACET003
B.Tech VI Semester
Syllabus

Objectives:

- To enhance project performance and produce better outcomes
- Allows the construction industry to choose the 'best of breed' software solutions that are right for Students
- Allows all students to contribute regardless of software tool

Outcomes:

After the completion of this course, students will be able to

- Creates a common language for processes Provides enduring project data for use throughout the asset life-cycle,
- Energizes the online product supply side with more exact
- User demand searches

Module I (10 hrs)

Introduction to Building Information Modeling (BIM) discussions of the Roles and Impacts of BIM in the Design, Construction Engineering and Management, Infrastructure Engineering and Facility. Define BIM; Describe workflow in using BIM in the building lifecycle; Perform model-based cost estimating; Perform 4D simulations; Apply BIM to reduce error and change orders in capital projects.

Module II (12 hrs)

Model-based Cost Estimating , Construction Scheduling and 4D Simulation, Design Coordination , BIM to the Field, Evaluate and communicate your ideas related to the use of BIM in the building life cycle.

Management; Revit Architecture, Structure, and MEP; Creating Sets, Building Elements, Structural

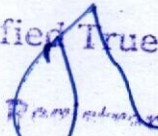
Systems, and MEP Systems; BIM and Clash Detection; BIM and Construction Cost Estimating and Scheduling; Future of Building Information Modeling.

Module III (8 hrs)



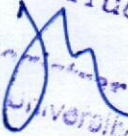

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Skills and information needed to effectively use an existing Building Information Model (BIM) in plan execution for a building construction project, implementation of BIM concepts throughout the lifecycle of a building, from planning and design, to construction and operations.


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