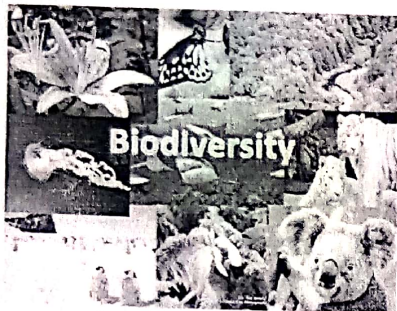


**Value Added Course on
Biodiversity and conservation (Course code:- VAC-Bio-555)**

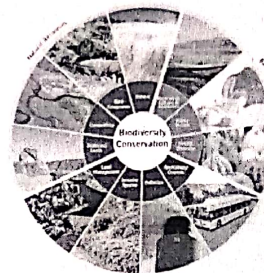
**Offered by
Department of Biotechnology**

Duration:-32 hours



Objective

The course is designed to acquaint students with concepts of Biodiversity, characterization, management and conservation.



Expected outcomes

- ❖ To understand in depth variability and variation between and among living systems.
- ❖ To get knowledge about different management organizations pertaining to sustainable Biodiversity.
- ❖ To know different strategy regarding conservation of Biodiversity

Course description

Bioresources are being overexploited to meet market demand, resulting in threatening their existence. The present course aims at introducing students to the nature and magnitude of threat to biodiversity and imparting them knowledge about Biodiversity conservation

Contents

- ❖ Introduction to Biodiversity
- ❖ Values and loss of Biodiversity.
- ❖ Conservation of Biodiversity.
- ❖ Management of Biodiversity.
- ❖ Biodiversity and Biotechnology.

Course delivery

- ❖ Group discussion
- ❖ Presentations
- ❖ Lectures
- ❖ Field trips

Assessment

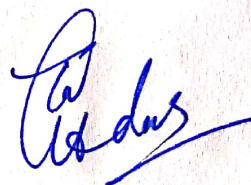
- ❖ Group Presentations = 30 Marks
- ❖ Group discussion = 20 Marks
- ❖ Attendance = 10 Marks
- ❖ Exam = 40 Marks

Registration date

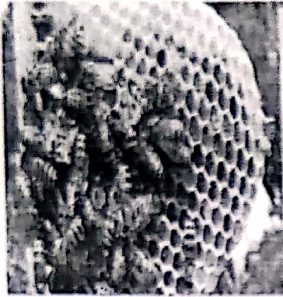
19/12/2016

Classes will commence during winter vacation

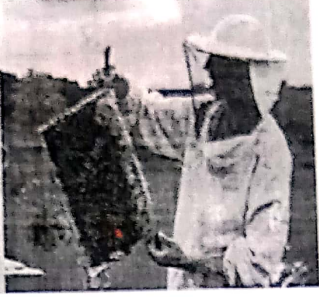
2nd- 12th January 2017



Value Added Course
Apiculture
(Course code:- VAC-Api-55)
Duration:-35 hours



Objective
The course is designed to acquaint students with concepts of Apiculture, Honey processing, management and entrepreneurship.



Expected outcomes

- ❖ To inculcate importance of beekeeping and honey processing in relation with entrepreneurship development.
- ❖ To get knowledge about various techniques of Beekeeping and Honey Processing.
- ❖ To teach students about Honey production and health related problems with Honey Bees.

Course description

Beekeeping has positive ecological consequences as they play an important role in pollination. Honey bees provide bee wax which is used in many industries. Apiculture provides employment thus reduces the poverty.

Contents

- ❖ Introduction to Apiculture
- ❖ Honey bee Morphology, Anatomy and Life Cycle
- ❖ Bee enemies and Diseases.
- ❖ Honey and its properties and application in various fields.
- ❖ Honey Processing and Bee Hive Products.

Course delivery

- ❖ Group discussion
- ❖ Presentations
- ❖ Lectures
- ❖ Field trips

Assessment

- ❖ Group Presentations = 30 Marks
- ❖ Group discussion = 20 Marks
- ❖ Attendance = 10 Marks
- ❖ Exam = 40 Marks

Registration date
19/12/2017

Introduced by:
Department of Zoology
Baba Ghulam Shah Badshah University, Rajouri

[Handwritten Signature]
Course Coordinator



Course Title: Exposure to Foreign Language-1.
Course Code: VAC-MBAHTM-101

Total Marks:60
Contact Hrs/week: 3 Hrs

Course Coordinator: Mr Amir Malik

Objectives:

- To introduce students with fundamentals of the chosen foreign language.
- To enhance students abilities towards communication through the foreign language.

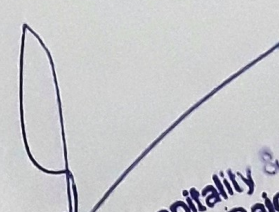
References:

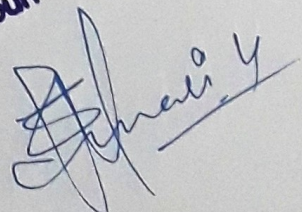
- Mon- Liver by Arun Sharma.
- French Phrase & useful words by Arun Sharma.
- Learn to speak and write French by Lotus Peare.

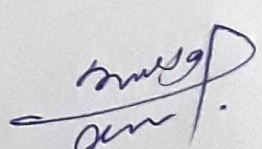
Unit No	Title	Description
Unit 1	Introduction	Alphabets: Punctuation marks. Articles: indefinite Article, Definite Article & Contractive Articles
Unit 2	Grammar	Noun: Feminine (Singular, Plural) Masculine (Singular, Plural) Pronouns & Adverbs. Adjectives : Possessive, Demonstrative, Interrogative.
Unit 3	Vocabulary	Number (Cardinal: 1to 100) Name of the days & Months Name of Colours.

Assessment:

Exam : 30 marks.
Presentation : 10 marks.
Assignment : 10 marks.
Attendance : 10 marks.
Total : 60 marks


Director
Center for Hospitality & Tourism
BGSB University, Rajouri





Universal Human Values and Professional Ethics (Course Code:-ERE-VAC-101)

COURSE OBJECTIVES:

This introductory course input is intended.

1. To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity, which are the core aspirations of all human beings.
2. To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of Existence. Such a holistic perspective forms the basis of Universal Human Values and movement towards value-based living in a natural way.
3. To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behaviour and mutually enriching interaction with Nature.

COURSE CONTENTS:

MODULE 1: Course Introduction - Need, Basic Guidelines, Content and Process for Value Education.

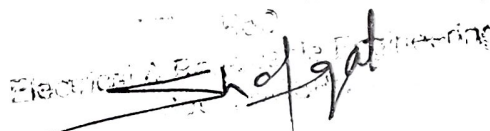
1. Understanding the need, basic guidelines, content and process for Value Education.
2. Self Exploration–what is it? - its content and process; 'Natural Acceptance' and Experiential Validation- as the mechanism for self exploration.
3. Continuous Happiness and Prosperity- A look at basic Human Aspirations.
4. Right understanding, Relationship and Physical Facilities- the basic requirements for fulfilment of aspirations of every human being with their correct priority.
5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario.
6. Method to fulfil the above human aspirations: understanding and living in **harmony** at various levels.

MODULE 2: Understanding Harmony in the Human Being - Harmony in Myself!

1. Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
2. Understanding the needs of Self ('I') and 'Body' - *Sukh* and *Suvidha*
3. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
4. Understanding the characteristics and activities of 'I' and harmony in 'I'
5. Understanding the harmony of I with the Body: *Sanyam* and *Swasthya*; correct appraisal of Physical needs, meaning of Prosperity in detail.
6. Programs to ensure *Sanyam* and *Swasthya*.

MODULE 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship.

1. *Understanding Harmony in the family – the basic unit of human interaction*



2. Understanding values in human-human relationship; meaning of *Nyaya* and program for its fulfillment to ensure *Ubhay-tripti*;
Trust (*Vishwas*) and Respect (*Samman*) as the foundational values of relationship
3. Understanding the meaning of *Vishwas*; Difference between intention and competence
4. Understanding the meaning of *Samman*, Difference between respect and differentiation; the other salient values in relationship
5. Understanding the harmony in the society (society being an extension of family): *Samadhan*, *Samridhi*, *Abhay*, *Sah-astitva* as comprehensive Human Goals
6. Visualizing a universal harmonious order in society- Undivided Society (*Akhand Samaj*), Universal Order (*Sarvabhaum Vyawastha*)- from family to world family!

MODULE 4: Understanding Harmony in the Nature and Existence - Whole existence as Co-existence.

1. Understanding the harmony in the Nature
2. Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature
3. Understanding Existence as Co-existence (*Sah-astitva*) of mutually interacting units in all-pervasive space
4. Holistic perception of harmony at all levels of existence.

MODULE 5: Implications of the above Holistic Understanding of Harmony on Professional Ethics.

1. Natural acceptance of human values.
2. Definitiveness of Ethical Human Conduct.
3. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order.
4. Competence in professional ethics:
 - a) Ability to utilize the professional competence for augmenting universal human order
 - b) Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems,
 - c) Ability to identify and develop appropriate technologies and management patterns for above production systems.
5. Case studies of typical holistic technologies, management models and production systems
6. Strategy for transition from the present state to Universal Human Order:
 - a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers
 - b) At the level of society: as mutually enriching institutions and organizations

COURSE OUTCOMES:

1. The students start exploring themselves; get comfortable to each other and to the teacher and start finding the need and relevance for the course.
2. The students are able to see that they can enlist their desires and the desires are not vague. Also they are able to relate their desires to 'I' and 'Body' distinctly. If any desire appears related to both, they are able to see that the feeling is related to I while the physical facility is related to the body. They are also able to see that 'I' and 'Body' are two realities, and most of their desires

are related to 'I' and not body, while their efforts are mostly centred on the fulfilment of the needs of the body assuming that it will meet the needs of 'I' too.

3. The students are able to see that the first four questions are related to our Natural Acceptance i.e. Intention and the next four to our Competence. They are able to note that the intention is always correct, only competence is lacking! We generally evaluate ourselves on the basis of our intention and others on the basis of their competence! We seldom look at our competence and others' intention as a result we conclude that I am a good person and other is a bad person.

4. The students are able to differentiate between the characteristics and activities of different orders and study the mutual fulfilment among them. They are also able to see that human beings are not fulfilling to other orders today and need to take appropriate steps to ensure right participation (in terms of nurturing, protection and right utilization) in the nature.

5. The students are able to present sustainable solutions to the problems in society and nature. They are also able to see that these solutions are practicable and draw roadmaps to achieve them.

REFERENCE MATERIAL:-

The primary resource material for teaching this course consists of:

a. The text book

R.R Gaur, R Sangal, G P Bagaria, A foundation course in Human Values and professional Ethics, Excel books, New Delhi, 2010, ISBN 978-8-174-46781-2

b. The teacher's manual

R.R Gaur, R Sangal, G P Bagaria, A foundation course in Human Values and professional Ethics – Teachers Manual, Excel books, New Delhi, 2010

c. A set of DVDs containing

- Video of Teachers' Orientation Program
- PPTs of Lectures and Practice Sessions
- Audio-visual material for use in the practice sessions

In addition, the following reference books may be found useful for supplementary reading in connection with different parts of the course:

1. B L Bajpai, 2004, *Indian Ethos and Modern Management*, New Royal Book Co., Lucknow. Reprinted 2008.

2. PL Dhar, RR Gaur, 1990, *Science and Humanism*, Commonwealth Publishers.

3. Sussan George, 1976, *How the Other Half Dies*, Penguin Press. Reprinted 1986, 1991

4. Ivan Illich, 1974, *Energy & Equity*, The Trinity Press, Worcester, and HarperCollins, USA

5. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, *limits to Growth*, Club of Rome's Report, Universe Books.

6. Subhas Palekar, 2000, *How to practice Natural Farming*, Pracheen (Vaidik) Krishi Tantra Shodh, Amravati.

7. A Nagraj, 1998, *Jeevan Vidya ek Parichay*, Divya Path Sansthan, Amarkantak.

8. E.F. Schumacher, 1973, *Small is Beautiful: a study of economics as if people mattered*, Blond & Briggs, Britain.

9. A.N. Tripathy, 2003, *Human Values*, New Age International Publishers.

Relevant websites, movies and documentaries

1. Value Education websites, <http://uhv.ac.in>, <http://www.uptu.ac.in>

2. Story of Stuff, <http://www.storyofstuff.com>
3. Al Gore, *An Inconvenient Truth*, Paramount Classics, USA
4. Charlie Chaplin, *Modern Times*, United Artists, USA
5. IIT Delhi, *Modern Technology – the Untold Story*
6. Gandhi A., *Right Here Right Now*, Cyclewala Productions

D. Solanki

Hodgat
Electrical & Renewable Engineering
CoET, BGSRU

PERSONALITY DEVELOPMENT (Course Code:- ERE-VAC-102)

COURSE OBJECTIVE:

Personality can be defined as “the combination of characteristics or qualities that form an individual’s distinctive character”.

The objectives of this course are:

- 1 It teaches the students how to deal, communicate and interact with different kinds of individuals.
- 2 To improve the student’s communication skills and which would finally result in helping him/her to attain his/her desired professional goal.
- 3 To make students feel better about themselves and to be proud of his/her unique personality.
- 4 To help students to face interview during field jobs and to improve employability skills.

COURSE CONTENTS:

MODULE 1:Introduction to Personality and working towards developing it :

- Definition and Basics of Personality
- Analyzing Strength and Weakness, Importance of Self Confidence and Self Esteem
- Increasing Vocabulary
- Body Language and Self Introduction

MODULE 2:Techniques in Personality Development:

- Communication Skills
- Building Self Esteem and Confidence
- Working on Attitudes: Aggressive, Assertive and Submissive
- Importance of Decision Making, Weighing Positives and Negatives

MODULE 3:Introduction to Leadership:

- Leadership styles and Assessment of Leadership Skills
- Team Building

MODULE 4:Interpersonal Relationships:

- Analysis of Ego States
- Stress Management
- Conflict Management

MODULE 5:Time Management:

- Concept
- Importance of Time Management and Step toward Time Management
- Prioritizing Work

Projecting A positive Social Image:

- Importance of Social Image
- Looking Great and Attractive
- Grooming Basics
- Public Speaking
- Voice Modulation

Anita Rana
HoD
Electrical & Instrumental Engineering
CSEET, DCU
2019

- Social Etiquettes and Table Manners
- Body Language
- Out of Box Thinking , Lateral Thinking

COURSE OUTCOMES:

- 1 This Course would help our students to Enhance their employability skills.
- 2 To Develop Interpersonal skills and be an effective goal oriented team player
- 3 To Develop professionals with idealistic, practical and moral values.

REFERENCES:

1. Covey Seans, “ Seven habits of highly effective Teens, New York Fireside Publishers, 1998.
2. Carnegie Dale, How to win Friends and Influence people, New York.
Daniel Coleman, Emotional Intelligence, Bantam Book, 2006

Anshu Rana

Electrical & Renewable Engineering
CoET, BCCSU
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QUANTITATIVE APTITUDE AND REASONING
(Course Code:-ERE-VAC-103)

COURSE OBJECTIVES:

An aptitude test is designed to assess what a person is capable of doing or to predict what a person is able to learn or do given the right education and instruction. It represents a person's level of competency to perform a certain type of task. Such aptitude tests are often used to assess academic potential or career suitability. Such tests may be used to assess talent in a variety of domains.

After thorough learning of Quantitative Aptitude and Reasoning a student:

1. Will be able to critically evaluate various real life situations by resorting to analysis of key issues and factors.
2. Will be able to read between the lines and understand various language structures.
3. Will be able to demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.

COURSE CONTENTS:

The course is designed keeping in mind needs of modern day competitive exams, various job scenarios as well as real life situations. It is expected that these topics will cater the the various requirements which a student is expected to face during and after his/her under graduation.

QUANTITATIVE APTITUDE: Number system, Time and Distance, Time and Work, Averages, Mixtures and Allegations, Permutation and Combinations, Probability, Simple equations, Ratio, Proportion, Percentages, Profit and loss, Partnership, Simple interest and Compound interest.

REASONING: Deductions, Connectives, Analytical Reasoning puzzles, Clocks, Calendars, Venn diagrams, Cubes, Number and letter series, Number and Letter Analogies, Odd man out, Coding and decoding, Directionsense, Critical Reasoning, Lateral reasoning puzzle.

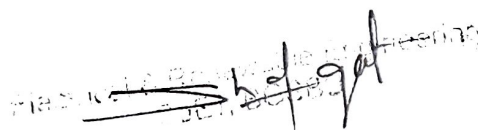
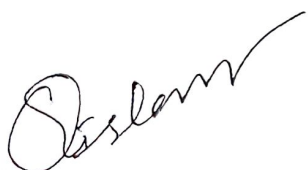
COURSE OUTCOMES:

After thorough learning of Quantitative Aptitude and Reasoning a student will be able to

1. Aptitude is basically defined as an innate, learned or acquired ability of an individual to perform certain tasks.
2. Aptitude tests inculcate many factors like Numerical reasoning, verbal reasoning, Abstract reasoning, speed accuracy, and other such abilities.
3. Employers to measure your work-related cognitive capacity use aptitude tests. Aptitude tests are one of the most commonly used assessments in measuring candidates' suitability for a role.
4. The most commonly used set of cognitive tests includes – Quantitative aptitude, abstract/conceptual reasoning, verbal reasoning and numerical reasoning.

REFERENCES

1. R Sagarwal, SChand, 'Quantitative Aptitude'
2. 'Quantitative Aptitude' G.LBARRONS
3. 'Quantitative Aptitude' AbhijitGuhaMc GrawHills
4. 'How to Prepare for Quantitative Aptitude for CAT' by Arun Sharma
5. 'Quantitative Aptitude Quantum CAT' by Sarvesh K Verma



Value Added Course
On
Stock Market Analysis
By
Department of Management Studies
BGSB University, Rajouri (J&K)

(Course Code: SMSSM-1)

Duration: 35 Hours

Course Objective:

This course provides an introduction to the modern finance theory and its applications. It will start by giving a short preamble of the working capital Management, cash Management and receivables Management. The course will then focus on stock markets analysis, portfolio theory, asset allocation and portfolio selection. The course will also briefly explore the assumptions of investor rationality, investor irrationality and their impact on investment decision making. The last topic will be an overview of Mutual fund.

Course contents:

Module 1: Working Capital Management

- Working capital Management (Meaning, concept, determinants)
- Management of Working capital in Handy craft business in Kashmir, Bohra chemical industry in Jammu and Nathu sweets in Jammu
- Cash management meaning and models of cash management.
- Cash management of J&K bank and HDFC bank
- Receivables management meaning and importance
- Receivable management of Small and medium enterprises in Jammu

Module 2: inventory Management

- Inventory management meaning and tools of inventory management
- Inventory Management of local manufacturing units in Rajouri
- Inventory management in selective trading companies like (Vishal Mega Mart and easy day)

Module 3: Stock Market Analysis

- Stock market analysis in selective listed companies in a particular stock exchange; NSE and BSE
- A comparative stock market analysis in selective listed companies in selective stock exchanges
- Online stock market analysis in selective listed companies

Module 4: Financial Derivative and performance



- Derivative stock market analysis in a particular stock exchanges
- Financial performance analysis in selective companies
- Financial performance analysis in selective banks
- Financial performance analysis in selective insurance companies

Module 5: Portfolio Management and Mutual Funds

- Portfolio management: basic concept of risk, return and diversification
- Portfolio management for various investors with different objectives and age group
- Mutual fund: concept and types
- Mutual fund Analysis of selective companies

Course outcomes:

Having successfully completed this module, you will be able to demonstrate knowledge and understanding of:

- Discuss the valuation of equities and their organization into portfolios
- Critically analyze the impact of current financial market developments on asset allocation issues;
- How to understand important investment data.
- Understand concept of long term and short term asset Management.

Reference Material

- Use of online trading account of Nirmal Bang Securities and shaerKhan
- Video of Teachers' Orientation Program
- PPTs of Lectures and Practice Sessions
- Audio-visual material for use in the practice sessions

In addition, the following reference books may be found useful for supplementary reading in connection with different parts of the course:

- "Common stocks and Uncommon profits" (1958) by Philip A. Fisher
- "Learn To Earn" (1995), "One Up On Wall Street" (1989) or "Beating The Street" (1994) by Peter Lynch
- "The Essays Of Warren Buffett: Lessons For Corporate America" (Revised 2001) by Warren Buffett and Lawrence Cunningham
- "Common Sense On Mutual Funds" (1999) by John Bogle

Value Added Course on Entrepreneurship Development
By
Department of Management Studies BGSB University
Rajouri (J&K)

(Course Code: SMSED-1)

Duration: 30 Hours

Course objective:

The objective of the course is that the students acquire necessary knowledge and skills required for organizing and carrying out entrepreneurial activities, to develop the ability of analyzing and understanding business situations in which entrepreneurs act and to master the knowledge necessary to plan entrepreneurial activities.

Module 1: Participatory learning

- How to plan a participatory learning process
- Getting started
- How to conclude participatory learning process
- Participatory learning and effective communication skills

Module 2: Entrepreneurship

- Understanding basic concept of Entrepreneurship
- Definitions /Concepts
- Qualities of an Entrepreneur
- Generation of business idea

Module 3: Development of Business Plan

- Market analysis
- Financial analysis
- Realistic planning
- Marketing analysis
- Costing of a product
- Pricing and launching of a product

Course outcomes: After completion of this course students will be able:

- To advance their knowledge about idea generation and qualities of good entrepreneur.
- To Understand concept of participatory learning and effective communication skills
- To familiar with the pre feasibility and feasibility study of business plan

Reference Material

- Videos of Successful Entrepreneurs
- PPTs of Lectures and Practice Sessions
- Audio-visual material for use in the practice sessions



In addition, the following reference books may be found useful for supplementary reading in connection with different parts of the course:

- Foundations of Entrepreneurship and Economic Development By David A. Harper Routledge, 2003
- Growing an Entrepreneurial Business: Concepts and Cases By Edward D. Hess Stanford Business Books, 2011
- Social Entrepreneurship: What Everyone Needs to Know By David Bornstein; Susan Davis Oxford University Press, 2010
- Entrepreneurship Development SS Khanka, S Chand Publishing 2006

A handwritten signature in blue ink, appearing to be 'D. A. Harper', written in a cursive style.A handwritten signature in blue ink, appearing to be 'E. D. Hess', written in a cursive style.

Value Added Course
on
“Quantitative Aptitude and Reasoning”

by
Department of Electronics and Communication Engineering,
SoET, BGSB University, Rajouri, J&K

Course Code: VAC-ECE-02

Duration: 36 Hours

Course Objectives:

After completing this course, the student:

1. Will be able to critically evaluate various real life situations by resorting to Analysis of key issues and factors.
2. Will be able to read between the lines and understand various language structures.
3. Will be able to demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.

Course Module:

MODULE 1: Simple equations, Ratio, Proportion, Variation, Percentages and Progressions

- i. Definition of Linear Equations, Formation of simple equations
- ii. Problems on Ages, Fractions and Digits
- iii. Definition of Ratio, Properties of Ratios, Comparison of Ratios, Problems on Ratios, Compound Ratio
- iv. Problems on Proportion, Mean proportional and Continued Proportion
- v. Percentage equivalent of fractions, Problems on percentages
- vi. Arithmetic, Geometric and Harmonic Progression

MODULE 2: Percentages, Profit and loss, Partnership, Simple interest and Compound interest, Quadratic equations

- i. Problems on Profit and Loss percentage, Relation between Cost Price and Selling price.
- ii. Discount and Marked Price, Two different articles sold at same Cost Price, Two different articles sold at same Selling Price
- iii. Gain% / Loss% on Selling Price
- iv. Problems on Simple and Compound Interest
- v. General form of Quadratic equations, Finding the roots of Quadratic equations, Nature of the roots, Relation between the roots, Maximum and minimum value of Quadratic Expression.

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MODULE 3: Deduction and Connectives, Analytical Reasoning Puzzles, Clocks, Calendars and Blood Relations

- i. Definition of a simple and compound statement, Finding the Implications for compound statements, Finding the Negations for compound statements
- ii. Finding the conclusions using Venn diagram method, finding the conclusions using syllogism method.
- iii. Problems on Linear arrangement, Circular arrangement, Double line-up, Selections and Comparisons.
- iv. *Clocks*: Finding the angle when the time is given, Finding the time when the angle is known, Relation between Angle, Minutes and Hours, Exceptional cases in clocks.
- v. *Calendars*: Definition of a Leap Year, Finding the number of Odd days, framing the year code for centuries, Finding the day of any random calendar date.
- vi. *Blood Relations*: Defining the various relations among the members of a family, solving the problems on Blood Relations using symbols and notations.

MODULE 4: Numbers, Time and Distance

- i. Classification of numbers, Divisibility rules, finding the units digit, finding remainders in divisions involving higher powers.
- ii. LCM and HCF Models
- iii. Relation between speed, distance and time, converting kmph into m/s and vice versa.
- iv. Problems on average speed and relative speed
- v. Problems on trains, boats and streams
- vi. Problems on circular tracks and races

MODULE 5: Time & Work, Averages, Mixtures and Allegations

- i. Problems on Unitary method, Relation between Men, Days, Hours and Work, Problems on Man-Day-Hours method, Problems on alternate days.
- ii. Problems on Pipes and Cisterns
- iii. Definition of Average, Rules of Average
- iv. Problems on Average and Weighted Average
- v. Finding average using assumed mean method, Problems on mixtures.
- vi. Allegation rule and problems on Allegation

MODULE 6: Data Interpretation & Sufficiency, Mensuration, Permutations and Combinations, Probability

- i. Problems on tabular form, Line Graphs, Bar Graphs and Pie Charts
- ii. Different models in Data Sufficiency and Problems on data redundancy
- iii. Formulas for Areas and Volumes of different solids
- iv. Problems on Areas, Volumes and Surface Areas
- v. Definition and problems on permutations and combinations.
- vi. Definition of Probability, Problems on coins, dice, deck of cards and years

MODULE 7: Cubes, Venn Diagrams and Binary Logic

- i. Basics of a cube, Formulae for finding volume and surface area of a cube, Finding the minimum number of cuts when the number of identical pieces are given, Finding the maximum number of pieces when cuts are given
- ii. Problems on painted cubes of same and different colors, Problems on cuboids, Problems on painted cuboids, Problems on diagonal cuts.
- iii. Representing the given data in the form of a Venn diagram, Problems on Venn diagrams with two sets, three sets and four sets.
- iv. Definition of a truth-teller, Definition of a liar, Definition of an alternator, solving problems using method of assumptions, solving analytical puzzles using binary logic.

MODULE 8: Numbers and Letter Series & Analogies, Odd Man out, Coding & Decoding

- i. Difference series, Product series, Squares series, Cubes series, Alternate series, Combination series and Miscellaneous series.
- ii. Definition of Analogy, Problems on number analogy, Problems on letter analogy, Problems on verbal analogy
- iii. Problems on number Odd man out, Problems on letter Odd man out, Problems on verbal Odd man out
- iv. Coding using same set of letters, Coding using different set of letters, Coding into a number

MODULE 9: Direction Sense, Critical Reasoning, Lateral Reasoning

- i. Solving problems by drawing the paths, Finding the net distance travelled, Finding the direction
- ii. Problems on shadows, Problems on damaged compass, Problems on direction sense using symbols and notations
- iii. Problems on assumption, Problems on conclusions, Problems on inferences, Problems on strengthening and weakening of arguments, Problems on principle, Problems on paradox
- iv. Problems on common balance, Problems on digital balance, Problems on coins, Problems on lockers, Problems on heights, Digit puzzles using basic arithmetic operations

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Value Added Course

on

“Human Values & Professional Ethics”

by

Department of Electronics and Communication Engineering,

SoET, BGSB University, Rajouri, J&K

Course Code: VAC-ECE-01

Duration: 30 Hours

Course Objectives:

This course is intended to provide a much needed orientational input in value education to the young enquiring minds and:

1. To help the students appreciate the essential complementarity between ‘VALUES’ and ‘SKILLS’ to ensure sustained happiness and prosperity, which are the core aspirations of all human beings.
2. To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of Existence. Such a holistic perspective forms the basis of Universal Human Values and movement towards value-based living in a natural way.
3. To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behavior and mutually enriching interaction with Nature.

Course Module:

MODULE 1: Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

- i. Understanding the need, basic guidelines, content and process for Value Education
- ii. Self-Exploration–what is it? - its content and process; ‘Natural Acceptance’ and Experiential Validation- as the mechanism for self-exploration
- iii. Continuous Happiness and Prosperity- A look at basic Human Aspirations
- iv. Right understanding, Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority
- v. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
- vi. Method to fulfill the above human aspirations: understanding and living in harmony at various levels

MODULE 2: Understanding Harmony in the Human Being - Harmony in Myself!

- i. Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
- ii. Understanding the needs of Self ('I') and 'Body' - *Sukh* and *Suvidha*
- iii. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
- iv. Understanding the characteristics and activities of 'I' and harmony in 'I'
- v. Understanding the harmony of 'I' with the Body: *Sanyam* and *Swasthya*; correct appraisal of Physical needs, meaning of Prosperity.

MODULE 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

- i. Understanding Harmony in the family – the basic unit of human interaction
- ii. Understanding values in human-human relationship; Trust and Respect as the foundational values of relationship
- iii. Understanding the meaning of *Vishwas*; Difference between intention and competence
- iv. Understanding the meaning of *Samman*, Difference between respect and differentiation; the other salient values in relationship
- v. Understanding the harmony in the society (society being an extension of family)
- vi. Visualizing a universal harmonious order in society- Undivided Society Universal Order- from family to world family!

MODULE 4: Understanding Harmony in the Nature and Existence - Whole existence as Co-existence

- i. Understanding the harmony in the Nature
- ii. Interconnectedness and mutual fulfillment among the four orders of nature recyclability and self-regulation in nature
- iii. Understanding Existence as Co-existence of mutually interacting units in all-pervasive space
- iv. Holistic perception of harmony at all levels of existence

MODULE 5: Implications of the above Holistic Understanding of Harmony on Professional Ethics

- i. Natural acceptance of human values
- ii. Definitiveness of Ethical Human Conduct
- iii. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order
- iv. Competence in professional ethics:
 - a) Ability to utilize the professional competence for augmenting universal human order

- b) Ability to identify the scope and characteristics of people-friendly and ecofriendly production systems,
- c) Ability to identify and develop appropriate technologies and management patterns for above production systems.
- v. Case studies of typical holistic technologies, management models and production systems
- vi. Strategy for transition from the present state to Universal Human Order:
 - a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers
 - b) At the level of society: as mutually enriching institutions and organizations

A handwritten signature in black ink, appearing to be 'Jm' with a long horizontal stroke extending to the right.A handwritten signature in black ink, appearing to be 'Luis' with a flourish at the end.

**SCHOOL OF EDUCATION
BABA GHULAMN SHAH BADSHAH UNIVERSITY
RAJOURI (J&K)-185234**

PROFILE:-

The Department was established in 2014. The faculty is contributing considerably to the promotion of teaching and research in Education. The course contents are kept in pace with changing trends in teaching and learning of emerging technologies, resources and services, systems and network

COURSE: COMPUTER APPLICATIONS

COURSE CODE: CCA

Duration: 30 Hours

STRUCTURE OF LECTURE SCHEDULE:

Contents	Lecture No
HTML Introduction to Computer, Various tags- paragraphs, formatting. Lists, Links, headings.	(1-2)
Graphics, images, image maps, tables.	(3-4)
Form Input, select, option text area, frames, frameset	(5)
DHTML Style sheet, span, linking style sheet, objects in DHTML,	(6)
Jscript Script Data Type Working with information, variables, expressions and evaluation, data type conversion, operators, loops, control structure.	(7-8)



DOM Arrays, Window object, Document object frame	(9)
Function Creating nesting, function parameters, Global and local variables in function, recursion.	(10-11)
Graphics Link and anchor object.	(12)
Validating Text Data Entry validation, event handling (date, time, empty checks, etc), capturing and deleting events. Validation of forms – numeric, alphabets, email-id	(13-14)
Flash Introduction, Motion Tween, Shape Tween	(15-18)
Graphics	(19-21)
Internet Services	(22)
File Handling	(23-25)
Directory Handling	(26)
Client side PHP	(28)
Project Work	(29)
Review	(30)

