



Sri Dharmasthala Manjunatheshwara College
(Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State

VALUE ADDED COURSES

SYLLABUS 2022-23



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SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS)

UJIRE – 574 240



DAKSHINA KANNADA, KARNATAKA STATE

(Re-Accredited by NAAC at 'A++' Grade)

Ph: 08256-236221, 236101(O), Fax: 236220

e-Mail:sdmcollege@rediffmail.com, sdmcollege@sdmcujiire.in, Website: www.sdmcujiire.in

Sri Dharmasthala Manjunatheshwara College Autonomous, Ujire

Department of English

Value Added Course: Introduction to English Phonetics

2022-23

Duration: 40 Hours [20 Hours + 20 Hours]

EVACC8

Preamble

- The course aims to introduce English Phonetics [Receptive (Listening) and Productive (Speaking)Skills] to the Non-Native Speakers of the Language.

Learning Objectives

- To introduce the IPA Scripts to the learners
- To learn Transcription
- To train student's vocal articulations
- To familiarise stress and intonation

Learning Outcome

- Learners familiarise IPA Scripts
- They learn Transcriptions from English to IPA and vice versa
- They try places and manner of articulation of sounds
- They understand stress and intonation

Syllabus

I Semester

Unit A: Introduction to IPA Scripts

- | | |
|-----------------|----------|
| 1. Vowels | 15 Hours |
| 1. Short Vowels | |
| 2. Long Vowels | |

3. Diphthongs
2. Consonants

1. Glottal
2. Bilabial
3. Labio-dental
4. Alveolar
5. Palatal
6. Velar

Unit B: Introduction to Places and Manner of Articulation of Sounds 05 Hours

1. Identification of Three Term Labels of the Vowel and Consonant Sounds
2. Identification of the oral and nasal cavity and the physiological features used for pronunciation

II Semester

Unit C: Stress and Intonation

10 Hours

1. Primary Stress
2. Secondary Stress
3. Falling Tone
4. Rising Tone
5. Falling Rising Tone
6. Rising Falling Tone

Unit D: Practising Pronunciation

10 Hours

1. Reading sentences
2. Reading Paragraphs
3. Reading Poetry
4. Making Speeches

Scheme

Internal Assessment 10 marks

Marks based on

- Transcriptions accuracies
- Testing the understanding of the Places and Manner of articulation of sounds
- Testing pronunciation as a performance

Term End Examination 40 marks

- Open choice for 4 questions out of 6 Duration of Examination 02 Hours

Reference

- Jones, Daniel. Cambridge English Pronouncing Dictionary. 18th Ed. CUP Cambridge. 2011.
- Wells, John and Wells, John Christopher. Longman Pronunciation Dictionary. Pearson. 2008.
- Upton, Clive. Oxford Dictionary of Pronunciation for Current English. OUP. 2003

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DEPARTMENT OF STATISTICS

VALUE ADDED COURSE - 2022-23

COMMON PROFICIENCY TEST

Course Code : VCSTA1906

Total Hours: 40 Hrs

Preamble :

Common proficiency test is an entry level test for Chartered Accountancy Course. One of the subjects is quantitative aptitude. Statistics facilitates the decision making process by quantifying the element of chance or uncertainties. Course enables students to acquire knowledge on statistical tools like measures of central tendency and measures of variation. Also it helps in identifying and establishing relationship between real life variables using tools like correlation, regression, probability theory and index numbers.

Learning Objectives

- To identify the different types of averages suitable to different situations.
- To study various measures of variation
- To understand the concept of Probability and its applications
- To know the concept of correlation, measurement and testing of correlation
- To know the concept of Index numbers, methods of computation of Index numbers

Learning Outcomes

- Students are able to understand the various types of averages and measures of variation used for different types of data by the students
- Students are able to understand the concept of probability and its applications
- Students are familiar with concept of correlation, measurement and testing of correlation
- To know the concept of Index numbers, methods of computation of Index numbers

Semester I and III

Unit I: Measures of central tendency meaning and types:

- Arithmetic Mean
- Geometric Mean
- Harmonic Mean
- Partition values:- median & Quartiles
- Mode (Grouping & Analysis Tables Not Required) (10 hours)

Unit II: Measures of Variation – Meaning Absolute & relative measures

- Range
- Quartile Deviation
- Standard Deviation
- Coefficient of Variation (10 hours)

Semester II and IV

Unit III: Correlation

Meaning, Types of correlation, Scatter Diagram, Karl Pearson's Product Movement correlation coefficient – its properties, Spearman's Rank Correlation coefficient.

Regression

Meaning, Regression equations, Regression coefficients, properties of Regression coefficients and regression lines, (10 hours)

Unit IV: Probability

Basic concepts, Axioms of probability, classical definition of probability, conditional probability, Addition and multiplication theorem, problems on conditional probability, Addition theorem, multiplication theorem. (5 hours)

Unit V: Index number

Need and meaning, steps in the construction of general price indices, computation of aggregative and average of price relative indices, Laspeyre's, Paasche's, Marshall-Edgeworth's and Fisher's indices. Time reversal and factor reversal tests. Consumer Price Index, need meaning and computation. (5 hours)

References:

1. Goon A.M., Gupta M.K. and Dasgupta B. (2002): Fundamentals of Statistics, Vol. I & II, 8th Edn. The World Press, Kolkata.
2. Gupta, S. C., & Kapoor, V. K. (2002). *Fundamental of Mathematical Statistics*. Sultan Chand & sons.
3. Guptha, S. C., & Kapoor, V. K. (1984). *Fundamentals of Applied Statistics*. Sulthan Chand and Sons.

Scheme of Examination**Internal Assessment****10 marks**

Marks based on Assignments on the topic

Term End Examination**40 marks**

Multiple choice questions-10

10 marks

Open choice for 6 questions out of 8

30 marks

Duration of Examination

02 Hours



DEPARTMENT OF COMMERCE

VALUE ADDED COURSE - 2022-23

ENTREPRENURSHIP DEVELOPMENT

Course Code:VCBCM1908-A

Total Hours: 40 Hrs

Preamble:

Entrepreneurship is considered as an engine of growth, especially in the case of developing economies. Creation of new business entities lead to a number of positive externalities - generation of employment, innovation and value added services and fiscal revenues for the economy. Entrepreneurship also has the potential to promote inclusive growth through empowerment of women, disadvantaged sections as well as educated unemployed youth.

Learning objectives:

- To expose the students on entrepreneurial concepts
- To identify the entrepreneurial skills to assist own business or for start-up.
- To identify the values, attitudes and motivation for a plunge in entrepreneurship
- To identify the entrepreneurial competencies

Learning Outcomes:

- Students will be able to develop creative and innovative skills
- Students will be able to develop and cultivate endurance
- Students will be able to understand the systematic process to select and screen a business idea
- Students will be able to write a business plan

Unit-I

10 Hours

Meaning, Definition and concept of entrepreneurship – Evolution of entrepreneurship – entrepreneurial competencies.

Practicals : Competency mapping

Unit-II**10 Hours**

Location – Factors to be considered while locating a business – legal issues and clearance. Identifying business opportunities – Financial requirements – Budgeting – Working capital and fixed capital.

Practicals : Preparing a Total Budget proposal.

Unit-III**10 Hours**

MSME schemes and govt. Assistance institutional support and training- impact of Rudseti.

Practicals: Visit to Rudseti, interaction with bankers and successful entrepreneurs.

Unit-IV**10 Hours**

Demand Forecasting and market Survey, Project report preparation on the chosen business, Viva for student.

Practicals: Conducting Market survey,

Reference books:

1. S.S. Khanka (2010), Entrepreneurship Development, S. New Delhi
2. Hariard Business essentials (2004) Entrepreneurs Tools Kit, Masachuset, U.S

Scheme of Examination**Internal Assessment****10 marks**

Marks based on

- a) Assignments on the topic
- b) Field visit report
- c) Minor project

Term End Examination**40 marks**

Open choice for 4 questions out of 6

Duration of Examination

02 Hours



DEPARTMENT OF PHYSICS-UG
VALUE ADDED COURSE- 2022-23
ESSENTIALS OF EVERY DAY PHYSICS

Course Code: VCPHY1901

Total Hours: 40 Hrs

Preamble:

Physics is considered as natural science which deals with matter, force, energy and motion. As these all are related to task related to everyday life, physics tells how everything works around us. All our observations can be explained on the basis of laws of Physics. This course deals with basics of Physics based on which all happenings around us are scientifically understood

Learning Objectives:

- To introduce the concepts of natural phenomena in a scientific perspective.
- To understand the role of physics as a basic science, in the development of technology and the welfare of mankind.
- To foster rational thinking in complex decision situations related to environmental problems by studying the physical laws underlying environmental phenomena.

Learning outcomes:

- Students shall be able to ask critical questions and perform scientifically based evaluations about current technologies.
- Students shall be able to appreciate the scientific aspects lying behind various technological tools.
- Students shall be able to understand principles and applications associated with general physics as applied to a broad range of technological systems and aspects of everyday life.

Part I - Odd Semester

Environmental and Atmospheric Physics: Introduction to environmental Physics-Our Environment, Constituents of Environment- Biotic and Abiotic Factors. Atmosphere, Formation of atmosphere-Theories, Our atmosphere, Climate, Global Circulation. Energy Sources-

Renewable and Non Renewable Energy Sources, Renewable Energy Sources- Solar, Wind, Geothermal, Tidal, Biomass. (6Hrs)

Astrophysics: Stellar Constellations- Zodiacal Constellations and their significance, Evolution and life cycle of Stars- Nebula, White dwarfs, Pulsars, Neutron stars and Black holes, Supernova Explosion. Solar System, Galaxies, Astronomical Units, a Guide to the Cosmology-Origin of Universe theories (12hrs)

Nuclear Physics: Nuclear Physics – Introduction, Radioactivity, Radioactive elements, Radioactive Decay, Half-life, Nuclear fission, Nuclear fusion, Applications of radioactive elements (2Hrs)

Part II-Even Semester

Radiation Physics: Radiation Physics- Introduction, Types of Radiations, Radiation Hazards, Applications, and Radiation Safety measure -Nuclear Reactors – Introduction, Types of Nuclear Reactors and their Applications. (4hrs)

Digital Electronics: Analog and Digital systems –need for understanding the digital devices- Basics of Digital Electronics-applications in daily life. Number Systems- Binary, Decimal, Basic gates- OR, AND, NOT, gates. LEDs-Seven segment display. Digital Photography-Digital camera-Resolution–Pixels-advantages and limitations-Digital Zoom-Optical Zoom. Digital storage devices-CD/DVD/Pen drive. Sound recording and storage. (4 Hrs)

Communication Electronics: Electric Communication: Need for modulation AM, FM, Transmitters and Receivers, Demodulation, Mobile Communication: Introduction, GSM architecture- Location tracking, Generations in mobile Communication,Television: Scanning Principle, types, CRT, WORKING, Basics of B/W and Color TV, Plasma, LCD and LED monitors (8hrs)

Recent Trends in Physics: Laser Principles and Applications Nanotechnology: Principles and future prospective -Medical Applications of Physics (4hrs)

Reference Books

1. Fundamentals of Environmental Physics by N K Mahapathra
2. Fundamental concepts in environmental studies by DD Mishra
3. Astronomy- the Evolving Universe III Edition (Harper and Row) by Felik M

4. Dawn of Universe by BimaNath
5. Sky watching by David H. Levy
6. Modern Physics by R. Murugesan
7. Nuclear Physics by S. N. Ghoshal
8. Fundamentals of Digital Electronics by Malvino and Leach
9. Fundamentals of Digital Electronics by Floyd
10. Mobile Communications by Jochen Schiller
11. Wireless communications and Networks by William Stallings
12. Wireless Communication by UpenaDalal

Scheme of Examination

Multiple choice Objective type questions 25 out of 30 questions carrying 1 mark each

Total marks- 25 to be converted in to 50 in each semester

Award of certificate on the completion of the course



DEPARTMENT OF BOTANY

VALUE ADDED COURSE - 2022-23

GARDENING, NURSERY TECHNIQUES & FLORICULTURE

Course Code: VACB1901

Total Hours: 40 Hrs

Preamble:

Gardening is a skilful remunerative field in the Plant science domain. It is supported by scientifically manageable nursery techniques. Keeping the economically viable flower growing section in mind this course leads to boost confidence to start new ventures.

Learning Objectives:

- To know the scope of Gardening, Nursery and Floriculture sector in Local, Regional, National & International Level
- To understand basic concepts of these fields.
- To Know the production technology of economically important saplings
- To explore traditional, contemporary and advanced methods to understand the market needs.

Learning outcome

- Student will be able to develop creative and innovative skills
- Students will accumulate knowledge on different techniques, methods and needs in the field of Gardening, Nursery and Floriculture sector

Unit 1

08 Hours

Nursery: definition, objectives and scope and building up of infrastructure for nursery, planning and seasonal activities - Planting - direct seeding and transplants

Unit 2**08 Hours**

Seed: Structure and types - Seed dormancy; causes and methods of breaking dormancy - Seed storage: Seed banks, factors affecting seed viability, genetic erosion – Seed production technology - seed testing and certification.

Unit 3**08 Hours**

Vegetative propagation: air-layering, cutting, selection of cutting, collecting season, treatment of cutting, rooting medium and planting of cuttings - Hardening of plants – green house - mist chamber, shed root, shade house and glass house.

Unit 4**08 Hours**

Gardening: definition, objectives and scope - different types of gardening -landscape and home gardening - parks and its components - plant materials and design -computer applications in landscaping - Gardening operations: soil laying, manuring, watering, management of pests and diseases and harvesting.

Unit 5**08 Hours**

Sowing/raising of seeds and seedlings - Transplanting of seedlings - Study of cultivation of different vegetables: cabbage, brinjal, lady's finger, onion, garlic, tomatoes, and carrots - Storage and marketing procedures

Suggested Readings:

1. Bose T.K. & Mukherjee, D., 1972, Gardening in India, Oxford & IBH Publishing Co., New Delhi.
2. Sandhu, M.K., 1989, Plant Propagation, Wile Eastern Ltd., Bangalore, Madras.
3. Kumar, N., 1997, Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
4. Edmond Musser & Andres, Fundamentals of Horticulture, McGraw Hill Book Co., New Delhi.
5. Agrawal, P.K. 1993, Hand Book of Seed Technology, Dept. of Agriculture and Cooperation, National _Seed Corporation Ltd., New Delhi.
6. Janick Jules. 1979. Horticultural Science. (3rd Ed.), W.H. Freeman and Co., San Francisco, USA.



DEPARTMENT OF MATHEMATICS

VALUE ADDED COURSE - 2022-23

MATHEMATICS FOR COMPETITIVE EXAMINATIONS

Course Code: VCMAT1903

Total Hours: 40 Hrs

Preamble:

For the preparation of various Competitive examinations conducted by Government & Public sector organizations, numerical ability is one of most important section. This subject requires immense practice and clear-cut understanding of concepts as well as shortcut ideas to excel in the examinations. This course will help the students to build their good career.

Learning Objectives:

- To introduce concepts of mathematics with emphasis on analytical ability and computational skill needed in competitive examinations.
- To enhance short –cut Techniques required to answer MCQs
- This course will help the students for the preparation of CAT, MAT, IBPS Exams, UPSC, KPSC exams and other National & State level examinations.

Learning Outcomes:

Student will able to

- Improve their reasoning ability, analytical skills, and Computational skills.
- Identify the appropriate answer for the problems through various shortcut skills.
- Build a good career in future.

Unit -I

(10 hours)

Decimal fractions, Problems, Simplification: Problems. Square roots and cube roots, Average. Problems on numbers, Problems on Ages, Problems Percentages – Problems, Profit, Ratio & Proportion, Partnership, Problems.

UNIT-II:**(10 hours)**

Time and distance- Time and work-Problems, pipes and cisterns- Problems, Time and distance-Problems, Problems on trains, Boats & streams-Problems.

UNIT-III**(10 hours)**

Simple interest- compound interest –Problems, Logarithms: Important facts & formulae, Problems. Area: Fundamental concept Problems, Volumes & surface area-Problems

UNIT-IV**(10 hours)**

Permutation & combination-Problems, Probability Definition and problems, Definition of Trigonometric ratios: Fundamental formulas, Heights & Distance –problems

Recommended Text

1. Quantitative Aptitude - R.S. Aggarwal (S.Chand & Co - New Delhi 2016)
2. V unit Fundamentals of applied statistics – S.C. Gupta and V.K. Gupta

Reference Books

1. Quantitative Aptitude - R.S. Aggarwal (S.Chand & Co - New Delhi 2008)
2. Quantitative Aptitude for Competitive Examinations - Abhigut Guha (Tata McGraw - Hill Pub., Co., Ltd. New Delhi - III Edn.)
3. Course in Mental Abilities and Quantitative Aptitude for Competitive Examinations - Edgar Thorpe (Tata McGraw - Hill Pub., Co., Ltd. New Delhi - II Edn.,)



DEPARTMENT OF JOURNALISM

VALUE ADDED COURSE - 2022-23

MEDIA MANAGEMENT (STUDIES)

Course Code: VCJOR1913

Total Hours: 40hrs

Preamble:

Media studies considered as a professional as well as a general subject. Knowledge of mass media is very much essential for both journalism and non-journalism students. As an interdisciplinary subject, mass media studies helps to create awareness about various media and also contributing creative ideas to various media. With this objective Media Studies paper is offered under Certificate Course for BA, B.Com, B.Sc and BBA students.

Learning Objectives:

- To educate the students on mass media.
- To create awareness about importance of mass media.
- To generate awareness about role of media as interdisciplinary subject.
- To educate about the job opportunity in media.
- To edify about importance of media writing.

Learning Outcomes:

- Students will be able to grasp the various dimensions of media.
- Students will learn to contribute their various ideas to media.
- Students will be motivated to involve in opportunities related to media.
- Students will cultivate the habit of using newspaper and other media.

Guidelines:

Total Hours: 20 (Per Semester)

Weekly: 2 Hours

Attendance: Compulsory

Exam for 50 Marks at Semester End

Open for all streams

One student has to complete 4 CC Courses till 4th Semester

Certificate will be issued to the students along with the final marks card

PART 1

Unit I

Introduction to Print Media:

Types and characteristics of print media; writing for print media - Letters to the editor, reporting for newspapers: headline, lead, body and conclusion, Feature writing - how to write a feature, structure of a feature, key points of feature writing,, article writing, editorial, Op-Ed pages, Freelancing.

- Practicals based on theory

PART 2

Unit II

Electronic Media:

Television: Nature and scope of television programs, types of TV programs, TV News Format - AV, AVB, AG, PKG, News Anchoring, Program Anchoring, Voice Over.

- Practicals based on theory

PART 3

Unit III

Digital Media:

E- Books, e-magazines, news portals, news apps, writing for web, profile writing, caption writing, technical writing, Blogs – Opening and maintaining a blogs, Managing Social Media profile.

- Practicals based on theory

PART 4

Unit IV

Photography and Cinematography:

Introduction to Photography: Composition and Camera Control Devices - ISO, Aperture and Shutter Speed, Lens: Types and Usage of Lenses, Cinematography: Introduction to Film and Video Cameras, Composition Rules, Frames, Shots, The Line and Continuity, Photographic Lights.

- Practicals based on theory

Books Recommended:

1. Cyernsheim G.H: History of Photography
2. Erickson B. And Romano F.: Professional Digital Photography
3. Blain Brown: Cinematography: Theory and Practice
4. Andrew Dewdney, Peter Ride: New Media Handbook, Routledge
5. Andrew Boyd: Broadcast Journalism Techniques of Radio & Television News, Reed Elsevier India Pvt.Ltd
6. Carole Rich: New Writing & Reporting, Cengage Delmar Learning India Pvt
7. N Meera Raghavendra Rao: Feature Writing, Prentice-Hall of India Pvt Lt
8. Usha Raman: Writing for the Media - Oxford University Press
9. Tim Wulfemeye K: Radio Tv Newswriting A Work Book - Surjeet Publications
10. RC Ramanujam: Television & Radio Broadcasting - Aph Publishing Corporation

Scheme of Examination:

Internal Assessment

10 Marks

Marks based on

- a. Assignments on the topic or
- b. Field visit report or
- c. Minor Project

Term End Examination

40 Marks

Open choice for 4 questions out of 6

Duration of Examination

02 Hours



DEPARTMENT OF PSYCHOLOGY

VALUE ADDED COURSE - 2022-23

PERSONALITY AND LIFE SKILLS EDUCATION

Course Code: VCPSY1915

Total Hours: 40 Hrs

Preamble:

Personality implies the dynamic qualities which assists the person to adopt very effectively and efficiently with the changing environment. While life skills indicate the skills that are adaptive and positive behaviours required for successful partaking in everyday life. These are considered as major human qualities of twenty first century. Nurturing essential positive personality traits and life skills assist the person to adopt quickly to the changing circumstances, to build psychosocial competence, to inculcate interpersonal relations, enhances achievement motivation and to achieve success in all walks of life. Further, outstanding personality features and excellent life skills are favourable for employment opportunities and self-employment.

Learning objectives:

- To enrich the students about different theories and assessment methods.
- To expose the students with essential personality skills.
- To identify the nature of adjustment.
- To enable the students to attain relevant life skills.

Learning Outcomes:

- Students will be able to develop knowledge about personality and assessment procedures.
- Students will be able to cultivate significant personality features.
- Students will be able to develop better adaptive abilities.
- Students will be able to establish crucial life skills to attain successful career.

Chapters	Period No.	Topics to be covered
Unit-I		Introduction to Personality
	1	Meaning & definitions
	2	Theories of personality- Freud's Psychoanalysis-structure of personality-Id, ego & super ego
	3	Levels of consciousness, psychosexual stages
	4	Carl Jung's type approach- introvert, extrovert & ambivert
	5	Cattel's trait approach- source, surface, central & cardinal traits
	6	Type A & B theory of personality- Friedman & Rosenman
	7	Factors influencing the growth of personality
	8	Assessment of personality- observation and case history method
	9	Questionnaires, inventories & rating scales
	10	Projective and semi-projective tests
Unit-II		Effective Personality Skills
	11	Stress management techniques.
	12	Anger- meaning, types and anger reducing methods
	13	Self-confidence – meaning, self-confidence development methods
	14	Positive thinking- meaning, enhancing positive thinking
	15	Anxiety and fear management skills
	16	Time management – meaning, time management skills
	17	Psychological well-being- developing psychological well-being
	18	Depression- methods to reduce depression
	19	Public speaking- how to reduce stage fear
	20	Non-verbal communications- Body language- certain important body languages.
Unit-III		Personality and Adjustment
	21	Meaning of adjustment, characteristics of well adjusted person
	22	Maladjustment and characteristics of maladjusted person
	23	Causes for maladjustment
	24	Stress- meaning, definition and types, frustration
	25	Pressure & conflicts- types of conflicts

	26	Reaction to stress- General Adaptation Syndrome, burnout
	27	Ego defense mechanisms- Meaning & types- projection, regression & repression
	28	Reaction formation and rationalization & sublimation
	29	Task oriented reaction pattern- avoidance, withdrawal, attack & compromise.
	30	Life style, diet and nutrition.
Unit-IV		Nurturing Life skills
	31	Communication skills- meaning & definition, developing communication skills
	32	Assertiveness- meaning, developing assertiveness skill
	33	Decision making and problem solving
	34	Self-awareness and mindfulness and empathy
	35	Interpersonal relationship skills
	36	Emotional intelligence- handling your emotions
	37	Developing good habits and hobbies
	38	Developing sense of humor
	39	How to become an extrovert?.
	40	Leadership skills

Student activities:

1. Test administration and discussion
2. Group discussion
3. Student presentations
4. Debates on selected topics

References:

1. Robert. A. Baron (2002). *Psychology (5th ed)*, Printice Hall Publications.
2. Natraj. P. (1991). *Psychology for beginners- Part II*, Srinivasa Publications: Mysore.
3. Sharma. M. K. (2011). *Personality development (1st ed)*, Alfa Publications: New Delhi.



DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE - 2022-23

FUNDAMENTALS OF ADOBE PHOTOSHOP

Course Code: VCCOM1907-A

Total Hours: 40 Hrs

Preamble:

Considering the latest job scenarios, the Faculty of computer Science finds it necessary to design short term certificate courses in Photoshop, Board of Studies in computer science has prepared following certificate courses.

This certificate course will provide a basic foundation in the fundamentals of Artistic Design, Digital Content Creation and Portfolio Development. The contents of this certificate courses are dynamic and are based upon the industry trends. This proposed certificate courses are useful for developing students creativity and the skills in the areas of design, computer animation, advertisement etc. using cutting edge software adobe Photoshop.

Learning Objectives

- Learn how to use Photoshop CS4.
- Learn the basics so that you can complete fundamental tasks
- Learn how to make use of more advanced features that will make your Photographs pieces of art

Learning Outcomes

- Upon completion of the course students will have the knowledge and ability to use Photoshop confidently and effectively.
- Among other uses the student will have employed Photoshop creatively to create four real world production challenges for print, photography, web and video.
- Student will gain the skills and abilities to use Photoshop that are employable and rewarding.

1. Getting Acquainted with Photoshop

3 Hrs

1. The Photoshop Environment
2. Palettes and the Palette Well
3. Creating Custom Workspaces
4. Opening Images
5. Using the File Browser
6. Image Magnification
7. Viewing Document Information
8. Moving the Image
9. Undoing Mistakes and The History Palette
10. Displaying Drawing Guides
11. Making Measurements

2. Basic Image Manipulation

1Hrs

- 1.1. Bitmap Images
- 2.2 .Vector Images
- 2.3. Image Size and Resolution Settings
- 2.4. Scanning Images
- 2.5. Creating New Images
- 2.6. Placing Files

3. Color Basics

3 Hrs

- 3.1. Color Modes and Models
- 3.2. Color Mode Conversion
- 3.3. Color Management
- 3.4. Foreground and Background Colors
- 3.5. Using the Color Picker
- 3.6. Selecting Colors with the Color Palette
- 3.7. Selecting Colors with the Eyedropper Tool
- 3.8. Selecting Colors with the Swatches Palette

4. Painting Tools

3 Hrs

- 4.1. Painting Tools

- 4.2. The Brush Tool
- 4.3. Blending Modes
- 4.4. The Pencil Tool
- 4.5. The Eraser Tool
- 4.6. The Magic Eraser Tool
- 4.7. The Background Eraser Tool
- 4.8. Using the Art History Brush
- 4.9. Using the History Brush

5.Brush Settings

3 Hrs

- 5.1. Using the Brushes Palette
- 5.2. Creating Custom Brush Tips by Selection
- 5.3. Creating Custom Brush Tips in the Brushes Palette
- 5.4. Setting Shape Dynamics
- 5.5. Setting Brush Scattering
- 5.6. Setting Brush Texture
- 5.7. Setting Dual Brushes
- 5.8. Setting Color Dynamics
- 5.9. Setting Other Dynamics
- 5.10 Miscellaneous Brush Settings
- 5.11 Clearing Brush Settings
- 5.12 Saving a Customized Brush
- 5.13 Saving a Customized Brush Library

6. Making Selections

3 Hrs

- 6.1. Selection Basics
- 6.2. Making Pixel Selections
- 6.3. The Marquee Tools
- 6.4. The Lasso Tools
- 6.5. The Magic Wand Tool
- 6.6. Selecting by Color Range
- 6.7. Adjusting Pixel Selections
- 6.8. The Extract Command
- 6.9. Copying and Pasting Pixel Selections

6.10. Saving and Loading Selections

7.Filling and Stroking

3 Hrs

- 7.1. Applying Fills
- 7.2. Using the Paint Bucket Tool
- 7.3. Using the Gradient Tool
- 7.4. Using the Gradient Editor
- 7.5. Using Patterns
- 7.6. Using the Pattern Maker
- 7.7. Stroking

8.Layers

3 Hrs

- 8.1. Using Layers and Layer Sets
- 8.2. Creating Layers and Layer Sets
- 8.3. Stacking and Linking Layers
- 8.4. Moving Layer Content with the Move Tool
- 8.5. Locking Layers
- 8.6. Common Layer Management Tasks
- 8.7. Merging and Flattening Layers

9.Advanced Layers

3 Hrs

- 9.1. Layer Styles
- 9.2. Adjustment Layers and Fill Layers
- 9.3. Masking Layers
- 9.4. Creating Clipping Groups
- 9.5. Creating Knockouts

10.Text

3 Hrs

- 10.1. Text Basics
- 10.2. Entering Text
- 10.3. Selecting Text
- 10.4. Editing the Bounding Box
- 10.5. Creating a Type Selection
- 10.6. Applying Effects to Type Layers

- 10.7. Using the Character Palette
- 10.8. Checking for Spelling Errors
- 10.9. Using the Paragraph Palette

11. Drawing

3 Hrs

- 11.1. Raster vs. Vector
- 11.2. Shape Layers and Shape Options
- 11.3. Using the Shape Tools
- 11.4. Using the Pen Tools
- 11.5. Using the Anchor Point Tools
- 11.6. Using the Paths Palette
- 11.7. Working with Paths

12. Using Channels and Masking

3 Hrs

- 12.1. Using the Channels Palette
- 12.2. Using Channels
- 12.3. Spot Colors
- 12.4. Blending Channels and Layers
- 12.5. Masks
- 12.6. Using Alpha Channels

13. Manipulating Images

5Hrs

- 13.1. Changing the Canvas Size
- 13.2. Rotating and Flipping Images
- 13.3. Cropping Images
- 13.4. The Free Transform Command
- 13.5. The Smudge Tool
- 13.6. Blurring and Sharpening Images
- 13.7. Using the Dodge Tool and the Burn Tool
- 13.8. The Sponge Tool
- 13.9. Filters and The Filter Gallery
- 13.10. The Liquify Command
- 13.11. The Clone Stamp Tool
- 13.12. The Pattern Stamp Tool

13.13. The Healing Brush Tool

13.14. The Patch Tool

13.15. The Color Replacement Tool

Exam : 1 Hr Duration

50 marks

SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS)

UJIRE - 574 240



DAKSHINA KANNADA, KARNATAKA STATE

(Re-Accredited by NAAC at 'A++' Grade)

Ph: 08256-236221, 236101(O), Fax: 236220

e-Mail: sdmcollege@rediffmail.com, sdmcollege@sdmcejire.in, Website: www.sdmcejire.in

DEPARTMENT OF COMMERCE VALUE ADDED COURSE - 2022-23 PRACTICAL BANKING

Course Code: VCBCM1908-B

Total Hours: 40 Hrs

Preamble:

Banking is a system of trading money which provides a safe place to save excess cash, known as deposits. Supplies liquidity to the economy by loaning this money out to help businesses grow and to allow consumers to purchase consumer products, homes etc. The difference between the two interest rates is effectively the profit margin for banks.

Learning objectives:

- To facilitate the students to learn the practical related to banking.
- To enhance students skills regarding the process of practical banking.
- To familiarize the students about the basic practices of the functioning of banks and to give the exposure of banking system.
- To familiarize students about banking technology as a confluence of several disparate disciplines such as finance.
- To expose the students on the functions of Bank and to initiate them for career in banking.

Learning outcomes:

- To have practical knowledge in the field of banking.
- To Elucidate the broad functions of banks.
- To know about the working of banking system.

Unit- I:

05 Hours

Indian Banking structure - Central Bank, Commercial Banks - Meaning and Functions.

Practicals: List of Bank with H.O

Unit- II:

10 Hours

Banks and Customer relationship- Negotiable Instruments- Kinds of Negotiable Instruments- Cheques- Crossing- Endorsements- Consequences of Wrongful dishonour.

Practicals: Formats of negotiable instruments.

Unit- III:

05Hours

Debit and Credit Cards- Electronic Transpire- NEFT and RTGS.

Practicals: Filling the forms for D.D, NEFT, RTGS.

Unit- IV:

10 Hours

New- Generation banks- Merging of banking and insurance- various types of account holders- K.Y.C norms.

Practicals: Visit to Bank and opening Bank A/c of non Bank A/c holders.

Unit- V:

10 Hours

Career in Banking- job opportunities as Clerks/P.O/Special officer in Central Bank, Developmental Banks and Commercial Banks.

Practicals: To collect the eligibility criteria and Test Pattern. Tips for clearing the Bank examination Mock tests.

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DEPARTMENT OF RATHNAMANASA

VALUE ADDED COURSE - 2022-23

VEGETABLE CULTIVATION

Course Code: VCRAT1923

Total Hours: 40 Hrs

I SEM

- ರತ್ನಮಾನಸದ ಪರಿಚಯ ಮತ್ತು ವೀಕ್ಷಣೆ.
- ತರಕಾರಿ ಬೆಳೆಗಳ ಪರಿಚಯ.
- ಮಿಶ್ರ ಬೆಳೆಗಳು.
- ಕಸಿ ಕಟ್ಟುವ ವಿಧಾನಗಳು.
- ಸ್ವ-ಉದ್ಯೋಗವಾಗಿ ಹೈನುಗಾರಿಕೆ.
- ಕೈ ತೋಟದಲ್ಲಿ ತರಕಾರಿ ಬೆಳೆಗಳು.
- ಎರೆ ಗೊಬ್ಬರದ ಮಹತ್ವ.
- ಸಾವಯವ ಕೃಷಿಪದ್ಧತಿ.
- ಕುಂಡಗಳಲ್ಲಿ ಗಿಡಗಳ ತಯಾರಿ.
- ಕಾಂಪೋಸ್ಟ್ ಗೊಬ್ಬರ ತಯಾರಿ.

II SEM

- ಬದುಕಿನಲ್ಲಿ ಜೀವನ ಮೌಲ್ಯಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುವುದು.
- ನರ್ಸರಿ ವಿಧಾನಗಳು.
- ಔಷಧೀಯ ಸಸ್ಯಗಳ ಮಹತ್ವ.
- ಸಸ್ಯ ಸಂರಕ್ಷಣೆ ಮತ್ತು ರೋಗಗಳು.
- ಹಸಿರು ಮೇವಿನ ಬೆಳೆಗಳು.
- ಬೀಜದ ಉಂಡೆ ತಯಾರಿ.
- ನೀರಾವರಿ ಪದ್ಧತಿಗಳು.
- ತೆಂಗು, ಅಡಿಕೆ ಮತ್ತು ಬಾಳೆಕೃಷಿ.
- ಹಣ್ಣಿನ ಬೆಳೆಗಳು.
- ಕೃಷಿಯೇತರ ಚಟುವಟಿಕೆಗಳು



DEPARTMENT OF BUSINESS ADMINISTRATION

VALUE ADDED COURSE - 2022-23

RETAIL MANAGEMENT

Course Code: VCBBA1909

Total Hours: 40 Hrs

Preamble:

The course outlines various processes which help the customers to procure the desired merchandise from the retail stores for their end use refer to retail management. Retail management includes all the steps required to bring the customers into the store and fulfill their buying needs.

Retail management makes shopping a pleasurable experience and ensures the customers leave the store with a smile. In simpler words, retail management helps customers shop without any difficulty.

Course Objective

- a) Familiarize the students with organized retail and, the value it creates.
- b) The strategic and operational decision-making processes in the organized retail.
- c) Relate the supply chain activities which create the value in the organized retail industry

Course Outcomes

- a) Understand the functions of retail business and various retail formats and retail channels.
- b) Understand the difference between Retail and Manufacturing Supply Chain
- c) Understand, key drivers of retail supply chain and how to select retail store location?

Unit 1: Introduction to Retailing: Concept of retailing, Functions of retailing, Terms & Definition, Retail formats and types, Retailing Channels, Retail Industry in India, Importance of retailing, changing trends in retailing.

8 Hours

Unit 2: Understanding the Retail Consumer: Retail consumer behavior, Factors influencing the Retail consumer, Customer decision making process, Types of decision making, Market research for understanding retail consume

8 Hours

Unit 3: Retail Market Segmentation and Strategies: Market Segmentation and its benefits, Kinds of markets, Definition of Retail strategy, Strategy for effective market segmentation, Strategies for penetration of new markets, Growth strategies, Retail value chain.

8 Hours

Unit 5: Retail Operations and Retail Pricing: Store administration, Premises management, Inventory Management, Store Management, Receipt Management, Customer service, Retail Pricing, Factors influencing retail prices
Pricing strategies, controlling costs

8 Hours

Reference

- 1) David Gilbert, **Retail Marketing Management**, 2nd Edition, Pearson Education Low Price Edition, New Delhi, 2008
- 2) Retail Management, Michael Levy & Barton A Weitz, Tata McGraw Hill
- 3) Retailing Management, Gibson C Vedamani , Jaico Publishing House, Mumbai
- 4) Retail Strategies- understanding why we shop, Jim, Jaico Publishing House, Mumbai

Scheme of Examination

Internal Assessment – 10 Marks

- a) Assignment
- b) Case Studies
- c) Field Visits

Term End Examination – 40 Marks

Open Choice for 4 Questions out of 6 Each Question Carries 10 Marks

Duration of Examination- 2 Hours



DEPARTMENT OF SANSKRIT
VALUE ADDED COURSE -2022-23
SANSKRIT SPEAKING COURSE

Course Code: VCSAN1919

Total Hours : 40 Hrs

Learning objective:

- To Understand Sanskrit verb system
- To Understand parasmaipadi and Atman Epadi all LakArAs.
- To Identify differences between Conjugations.
- To understand the concept of Sandhis
- To Know the Importance of KridantAs.

Learning Outcomes:

- Pupil will be able to identify different forms of verbs.
- Pupil will be able by heart at least 5 lakaras of few verbs.
- Pupil will be able to identify the different conjugation
- Pupil will be able to tell the rules of different conjugations..
- The Student will be able to Identify the kRutpratyayAs

Syllabus: (Give in units)

DAY-1• गीतम् (पठत संस्कृतम् इग.) मम नाम , भवतः नाम, भवत्याः नाम। सः कः?, सा का?, तत् किम्? एषः, एषा, एतत्। अष्म्, भवान्, भवती। अम्, न, वा। अस्त, नास्ति। अतः, ततः, अन्यतः, सर्वतः एतः, कतः। तस्य - कस्य, तस्याः - कस्याः। एतस्य, एतस्याः। मम, भवतः, भवत्याः। षष्ठीवभक्तिः - बालकस्य, बालकायाः, लेखन्याः, पुस्तकस्य। गीतम् (मनसा सततं इग.....)

DAY-2• गीतम् (पठत संस्कृतं इग.....) पुनःस्मरणम्

अवश्यकम्, मास्तु, पर्याप्तम्, धन्यवादः, स्वागतम्। गच्छति, अगच्छति, उपविशति, उत्तिष्ठति पठति, लखति, खादति, पिबति,, करोति,, हसति गच्छतु, अगच्छतु, इग.....। गच्छामि अगच्छामिङ्ग.....। सङ्ख्या-- १,२,३,इग.....,१०. १०,२०,३०, इग.....,१००. समयः -५.००,५.१५, ५.३०, ५.४५. कथा। एकं वाक्यम्। रत्नाभ्यासः। सूचनाः। लिङ्गभेदज्ञापनम् -- सःचषकः, सा माला, सा लेखनी,

तत् फलम्। एषः दण्डः, एषा स्थालिका, एषा अङ्कनी, एतत् फलम्। बहुवचनपाठनम् -- पुरुषाः, महिलाः, लेखन्यः, फलानि। ते के, ताः काः, तानि कानि। एते, एताः, एतानि। भवन्तः, भवत्यः, वयम्। सन्ति कति। सप्तमी विभक्तिः -- हस्ते, उत्पीठकायां, लेखन्यां, पुस्तके। कदा। गीतम् (मनसा सततं इग.....) वासराः। अद्य, श्वः, परश्वः, प्रपरश्वः, ह्यः, परह्यः, पर्परह्यः, इदानीम्। क्रियापदानां बहुवचनरूपाणि - गच्छन्ति, गच्छामः, गच्छन्तन्तु

DAY-3• गीतम् (पठत संस्कृतं इग.....) पुनःस्मारणम्। शिष्टाचाराः - सुप्रभातम्, नमस्कारः, नमो नमः, शुभरात्रिः, क्षम्यताम्, चिन्तामास्तु। प्रातर्विध्यः - दन्तधावनम्, स्नानं, प्रार्थना, योगः, प्रातराशः इत्यादयः। सङ्ख्या - १ - ५०. समयः - ५.०५, ५.१०, ५.५०, ५.५५. इत्यादयः। स्वागतसम्भाषणम्। कथा। वाक्ययम्। रत्नाभ्यासः। सूचनाः।

DAY-4• गीतम् (पठत संस्कृतं इग.....) पुनःस्मारणम्। क्रियापदानां बहुवचनरूपाणि पश्यति पश्यन्ति पश्यामि - पश्यामः, पश्यतु - पश्यन्तु। द्वितीयाविभक्तिः - छात्रम्, पत्रिकाम्, लेखीम् पुस्तकम्। कृपया ददातु - शिक्षकः एकैकं वस्तु प्रदर्शयति। उद - स्यूतः, छात्रः - कृपया स्यूतं ददातु इत वदेयुः। पुरतः, पृष्टतः, वामतः, दक्षिणतः, उपरि, अधः। इतः, ततः, गृहतः, कतः। शीघ्रम् - मन्दम्, उत्थैः - शनैः, सम्यक्, कथम्। किमर्थम्। सप्त ककाराः। अप। अस्तु। अहं न जानामि। (क्रियापदकाष्टकाभ्यासः) सम्बोधनम् - भोः, श्रीमन्, मान्ये, भगिनि, मातः, महोदय, कृष्ण। सङ्ख्या - ५१ - १०० क्रीडा - ॐ कर्?डा, (५, १०, १५ इत्यादिषु स्थानेषु ॐ इत वक्तव्यम्) समयः - १.००, २.००, ३.००, ४.००. सम्भाषणपदर्शनम्। कथा। रत्नाभ्यासः। सूचना। ऐक्यमतरः।

DAY-5• गीतम् (पठत संस्कृतं इग.....) पुनः स्मारणम्। गतवान्, गतवती। ? च, अतः, एव, इत। ? अस्म, स्मः। यदि तर्हि यथा तथा। क्रियापदानां परिवर्तनाभ्यासः तः पयन्तम्। ? अद्य आरभ्य। कृते (चतुर्थिविभक्त्यर्थः)। ? अस्तु। ? गीतम्। ? असीत्, असम्, असन्, अस्म। विशेषपाठनम् - करोति कुर्वन्ति' करोमि - कुर्मः, ददाति -ददति, ददामि दद्वः।

DAY-6-? गीतम् (पठत संस्कृतं इग.....) सङ्ख्यानां लिङ्ग भेदः - एकः, एका, एकम्। ? भोजनसम्बन्धाः शब्दाः। ? सङ्ख्या - १००, २००, ३००, इग.....१०००, १००००, १०००००, १००००००. ? क्रीडा - अनुसङ्ख्याकथनम्। ? सम्भाषणप्रदर्शनम्। ? कथा। रत्नाभ्यासः। ? सूचना।

DAY-7• तृतीया विभक्तिः हस्तेन, कुञ्चिकया, लेखन्या, वाहनेन। ? सह, विना। ? भविष्यत्कालः तथा। क्रियापदानां परिवर्तनाभ्यासः अद्यतन, ह्यस्तन, श्वस्तन, पूर्वतन, इदानीन्तन। ? गत, आगामि ? गीतम् ? यदा तदा स्म अभवत् ? क्त्वान्तपर्योगः, ल्यबन्तपर्योगः ? गत्वा, अगत्य। बन्धुवाचकशब्दाः। वर्णाः, रुचयः। ? वाहनानां नामानि, वेषभूषाणां नामानि कर्?डा (एकश्वासेन सङ्ख्याकथनम्) ? सम्भाषणपदर्शनम्। ? कथा। रटनाभ्यासः सूचना। ?

DAY-8? गीतम् ? पुनः स्मारणम्। पुरातन, नूतन। बहु, ष्वित्। दीर्घ- ह्रस्व। ? उन्नत ? वामन। स्थूल कृश। ? ईदृश ? तादृश ? कीदृश। ? तुमुन्तपर्योगः ? गन्तुम्। ? शक्नोति। प्ति, अपेक्षया, इव, निश्चयेन, प्रायशः, किल।

DAY-9• गीतम् विशेषणिवशेष्यभावः (प्रथमाविभक्तौ)। प्राणिनां नामानि, अवयवानां नामानि, वाक्यविस्तारणम्। सम्भाषणपदर्शनम्। कथा। रत्नाभ्यासः। ? सूचना।

DAY-10• गीतम् ? पुनः स्मारणम्। विशेषणिवशेष्यभावः (सप्तसु विभक्तिषु) ? क्त्वान्त ? तुमुन्तपरिवर्तनाभ्यासः। ? बहिः अन्तः। ? रिक्तं पूणम्। ? इतोऽपि इत्युक्ते, अन्ते चेत्, नोचेत्। ? वैद्यर्गिसम्भाषणम्। ? ऋषीणां नामानि।

DAY-11• गीतम्। ? पुनः स्मारणम्। अनन्तकथारचना। ? दीर्घसङ्ख्यापाठनम्। ? पुस्तकानां परिचायनम्। कथा। रत्नाभ्यासः। ? सूचना।

DAY-12• गीतम् । ? पुनः स्मरणम् । ? वारम् । ? अतः ? यतः (परिवर्तनाभ्यासः) यद्यपि तथापि। यः सः, या सा , यत् तत् । ? यतः ततः, यत्र तत्र, कति, प्यित्। यावत् -तावत् । ? अस्माकम्। चर्चा विनोदकिणकाकथनम्।

DAY-13• गीतम् । ? पुनः स्मरणम् । कथा। रत्नाभ्यासः। सूचना

DAY-14• गीतम् । ? पुनः स्मरणम्।

चित् - चन। द्वयम्। सङ्ख्यासु लिङ्गभेदः । त्रयः, तिस्रः, त्रीणि, चत्वारः, चतस्रः, चत्वारि अहं वैद्यः मम नाम इग.....। (छात्राः तमुद्दिश्य प्रश्नान् पृच्छेयुः।

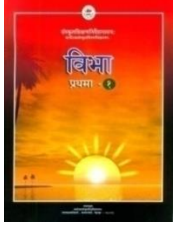
DAY-15• गीतम् । ? तव्यत् अनीयर् (गन्तव्यः, गन्तव्या, गन्तव्यम्, पठनीयः, पठनीया, पठनीयम्) ? अनन्तकथारचना प्रश्नोत्तव् कथा। रत्नाभ्यासः। सूचना।

DAY-16• दूरवाणीसम्भाषणम् । ? मार्गनिर्देशः। (गृहं प्रति कथम् अगन्तव्याम् इत्यादयः)। ? सान्दिभकसम्भाषणम् । ? शुभाशयः। (जन्मिदनांशंसाः इत्यादयः) दशवाक्यानि।

Sanskrit University text

Part-2- 24 hours

Vibhaa



Written By : Various Authors

Published By : Prasara, Karnataka Sanskrit University, Pampa Mahakavi Road, Chamarajpet, Bengaluru – 18

Cost: INR. 70.00

Available at : Karnataka Sanskrit University Campus, Pampa Mahakavi Road, Chamarajpet, Bengaluru – 18

Evaluation :

Continuous Internal Assessment: (10 Marks) :

1) seminar- 5 marks 2) class room quiz -5 marks

Semester End Exam: 40 Marks

Paper Title

Max. Marks : 40

Time: 2hrs

General inspections

1) Translation from Kannada or English to Sanskrit

1X15=15 Marks

2) Question paper of Vibha exam

25 marks

Suggested Reading : Various Sanskrit APPS available in Google Store.

SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS)



UJIRE – 574 240

DAKSHINA KANNADA, KARNATAKA STATE

(Re-Accredited by NAAC at 'A++' Grade)

Ph: 08256-236221, 236101(O), Fax: 236220

e-Mail: sdmcollege@rediffmail.com, sdmcollege@sdmcujiire.in, Website: www.sdmcujiire.in

DEPARTMENT OF BIOTECH

VALUE ADDED COURSE - 2022-23

SCIENCE OF AGRICULTURE AND MEDICINE

Course Code: VCBIT1905

Total Hours: 40 Hrs

Preamble:

Agriculture has been practiced since ages, however in order to follow good agriculture practice modern and new methods have to be inculcated. Therefore, students would learn about modern agriculture not just to apply in the farms and fields but also in their daily life. In recent times food is medicine and medicine is food. There is a need to understand the role of plants as medicine.

Learning objective

- To gain knowledge on tradition and modern agricultural practices
- Effective and productive methods of agriculture to improve productions.
- To understand various systems of medicine.
- To understand significance of Ethnobotany.

Learning Outcome

- Knowledgeable about good agricultural practices.
- Knowledgeable about importance of biofertilizers.
- Knowledgeable about the significance of alternative medicines.

Unit I

20 hours

- Contribution of few agricultural scientist
- Basic agricultural practices
- Good agricultural practices-Food security, Food safety, Nutrition.
- Soil testing

- Sustainable agricultural practices
- Biofertilizer
- Soil and water conservation
- Agriculture and economy: Post-harvest losses of yield (handling, processing, pests, improper storages)
- Biotechnological approaches to crop improvement: Hybridization, Tissue cultures

Unit II

20 hours

- Traditional medicine
- Principle of diagnosis
- Home remedies: Most commonly used medicinal plants
- Ayurveda: Diagnosis & treatment strategies
- Homeopathy
- Alternative systems of medicine.

Reference

- Rao, C. Kameswara. Material for the Database of Medicinal Plants. India: Karnataka State Council for Science and Technology for the Department of Forests, Environment and Ecology, Government of Karnataka, 2000.
- Rathakrishnan, T. (2009). Traditional Agricultural Practices: Applications & Technical Implementations. India: New India Pub. Agency.
- Vyas, A. K. (2008). Introduction To Agriculture. India: Jain Brothers.
- Khare, C. (2007). Indian Medicinal Plants: An Illustrated Dictionary. Germany: Springer.

Scheme of examination

Internal assessment

10 Marks

Marks based on

- a) Assignment on topics
- b) Seminars

Term end examination

40 Marks

Multiple choice questions

OR

Open choice for 4 questions out of 6

Duration of the examination

2 Hours



DEPARTMENT OF ECONOMICS AND RURAL DEVELOPMENT

VALUE ADDED COURSE - 2022-23

COLLECTION AND ANALYSIS OF DATA

Course Code: VCECO1911

Total Hours: 40 Hrs

Preamble:

Data Analytics Certificate Courses are short term courses, in the field of data analytics that help an individual to learn the basics of analyzing, extracting, manipulating, and comprehension of data to draw conclusions and achieve defined data goals.

Learning Objective:

- To understand a range of methods and techniques for generating qualitative data including interviews, observation and field notes, focus groups, questionnaires, documents and archival data, and participatory methods
- Demonstrate knowledge of statistical data analysis techniques utilized in business decision making.

Learning Outcomes:

The students learning outcomes are designed to specify what the students will be able to perform after completion of the course:

- Ability to identify the characteristics of datasets and compare the trivial data and big data for various applications.
- Ability to select and implement machine learning techniques and computing environment that are suitable for the applications under consideration.
- Ability to solve problems associated with batch learning and online learning, and the big data characteristics such as high dimensionality, dynamically growing data and in particular scalability issues.
- Ability to understand and apply scaling up machine learning techniques and associated computing techniques and technologies.

- Ability to recognize and implement various ways of selecting suitable model parameters for different machine learning techniques.
- Ability to integrate machine learning libraries and mathematical and statistical tools with modern technologies.

Syllabus

Unit- I-Data; Meaning, types- Techniques of data collection- methods of data collection- Observation technique-Survey method- Documentary or Historical method- Experimental method. (20 hours)

Unit –II-Analysis of Data- Classification of Data- Coding- Tabulation- Statistical Analysis- Inference about relations among variables. (20 hours)

Books for Reference:

- Research Methodology: Methods and Techniques- C R Kothari
- Research Methodology - Panneerselvam R
- Research Methods-Ram Ahuja
- Research Methodology -Taylor



DEPARTMENT OF KANNADA VALUE ADDED COURSE - 2022-23 SPARDHA KANNADA

Course Code: VCKAN1916

ಅವಧಿ: 40 ಗಂಟೆಗಳು

ಪ್ರಸ್ತಾವನೆ:

ಇದು ಸ್ಪರ್ಧಾತ್ಮಕ ಯುಗ. ವಿದ್ಯಾರ್ಥಿಗಳು ಸಾಂಪ್ರದಾಯಿಕ ಕೋರ್ಸ್‌ಗಳನ್ನು ಪೂರೈಸಿ ಉತ್ತಮ ಅಂಕಗಳನ್ನು ಪಡೆದ ಮಾತ್ರಕ್ಕೆ ಉದ್ಯೋಗಾವಕಾಶಗಳು ತೆರೆದುಕೊಳ್ಳುತ್ತವೆ ಎನ್ನುವಂತಿಲ್ಲ. ಇಂದು ಪ್ರತಿಯೊಂದು ಕ್ಷೇತ್ರದಲ್ಲೂ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗಳನ್ನು ನಡೆಸುವುದರ ಮೂಲಕ ತಮಗೆ ಬೇಕಾದ ಅಭ್ಯರ್ಥಿಗಳ ಬುದ್ಧಿಮತ್ತೆಯನ್ನು ಒರೆಗಲ್ಲಿಗೆ ಹಚ್ಚಿ ಆಯ್ಕೆಮಾಡಿಕೊಳ್ಳಲಾಗುತ್ತಿದೆ. ರಾಜ್ಯ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರದ ಲೋಕಸೇವಾ ಆಯೋಗದ ಉನ್ನತ ಹುದ್ದೆಗಳಿಗೆ, ರಾಜ್ಯ ಸರ್ಕಾರದ ವಿವಿಧ ಹುದ್ದೆಗಳಿಗೆ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗಳನ್ನು ನಡೆಸಿ ಅಭ್ಯರ್ಥಿಗಳನ್ನು ಆಯ್ಕೆ ಮಾಡಲಾಗುತ್ತದೆ. ವಿಶೇಷವಾಗಿ ಕೇಂದ್ರ ಲೋಕಸೇವಾ ಆಯೋಗ ನಡೆಸುವ ಉನ್ನತ ಅಧಿಕಾರಿಗಳ ಆಯ್ಕೆಗಾಗಿ ನಡೆಯುತ್ತಿರುವ ಪರೀಕ್ಷೆಗಳಲ್ಲಿ ಕನ್ನಡವನ್ನು ಮುಖ್ಯ ವಿಷಯವನ್ನಾಗಿ ಆಯ್ಕೆ ಮಾಡಿಕೊಂಡು, ಕನ್ನಡ ಮಾಧ್ಯಮದಲ್ಲಿಯೇ ಪರೀಕ್ಷೆ ಬರೆಯುವ ಅವಕಾಶ ಇದ್ದು, ಇದರ ಲಾಭ ಪಡೆದುಕೊಂಡು ಹೆಚ್ಚು ಹೆಚ್ಚು ಅಭ್ಯರ್ಥಿಗಳು ಅಧಿಕಾರಿಗಳಾಗಿ ಆಯ್ಕೆಯಾಗುತ್ತಿದ್ದಾರೆ. ಅದೇ ರೀತಿ ಕರ್ನಾಟಕದ ಅಧಿಕೃತ ರಾಜ್ಯ ಭಾಷೆಯಾದ ಕನ್ನಡದಲ್ಲಿಯೇ ಪರೀಕ್ಷೆಗಳನ್ನು ನಡೆಸಲಾಗುತ್ತದೆ ಹಾಗೂ ಕನ್ನಡ ನಾಡು-ನುಡಿ, ಇತಿಹಾಸ, ಭಾಷೆ, ಸಂಸ್ಕೃತಿಗಳಿಗೆ ಸಂಬಂಧಿಸಿದ ಪ್ರಶ್ನೆಗಳು ಅಲ್ಲಿ ಇರುತ್ತವೆ. ಈ ಕುರಿತು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಅರಿವು ಮೂಡಿಸುವ ಉದ್ದೇಶದಿಂದ ಈ ಕೋರ್ಸ್‌ನ್ನು ರೂಪಿಸಿಕೊಳ್ಳಲಾಗಿದೆ.

Learning objectives:

- ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗಳ ಬಗ್ಗೆ ಮಾಹಿತಿ ನೀಡುವುದು
- ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗಳಲ್ಲಿ ಕನ್ನಡದ ಮಹತ್ವದ ಬಗ್ಗೆ ತಿಳಿಸುವುದು
- ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗಳಲ್ಲಿ ಕನ್ನಡ ಪಠ್ಯಕ್ರಮದ ಬಗ್ಗೆ ಅರಿವು ಮೂಡಿಸುವುದು
- ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ ಎದುರಿಸಲು ಪ್ರೋತ್ಸಾಹಿಸುವುದು
- ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಕನ್ನಡತನದ ಕಾಳಿಜಿ ಬೆಳೆಸುವುದು

Learning out comes

- ರಾಜ್ಯ ಹಾಗೂ ಕೇಂದ್ರ ಲೋಕಸೇವಾ ಆಯೋಗಗಳ ಪರೀಕ್ಷಾ ಪದ್ಧತಿ, ನೀತಿ, ನಿಯಮಗಳ ಅರಿವು ಮೂಡಿಸಿಕೊಂಡಿರುವುದು
- ರಾಜ್ಯ ಸರ್ಕಾರದ ವಿವಿಧ ಹುದ್ದೆಗಳಿಗೆ ನಡೆಯುವ ಪರೀಕ್ಷೆಗಳ ಮಾಹಿತಿ ಅರಿತುಕೊಂಡಿರುವುದು
- ಸ್ಪರ್ಧಾತ್ಮಕ ಮನೋಭಾವನೆಯನ್ನು, ಪರೀಕ್ಷೆ ಎದುರಿಸುವ ಧೈರ್ಯ, ಸಂದರ್ಶನ ಕಲೆ ಮೊದಲಾದ ಗುಣಗಳನ್ನು ಬೆಳೆಸಿಕೊಂಡಿರುವುದು
- ಕನ್ನಡ ಭಾಷೆ, ಸಾಹಿತ್ಯ, ಕಲೆ, ಸಂಸ್ಕೃತಿಗಳ ಪರಿಚಯ ಮಾಡಿಕೊಂಡಿರುವುದು

- ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗೆ ಬೇಕಾದ ಕೌಶಲವನ್ನು ಮೈಗೂಡಿಸಿಕೊಂಡಿರುವುದು

ಘಟಕ-ಒಂದು

1. ಕನ್ನಡದಲ್ಲಿ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗಳನ್ನು ಎದುರಿಸುವುದಕ್ಕೆ ಬೇಕಾದ ಪೂರ್ವ ತಯಾರಿ

10 ಗಂಟೆ

1. ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಯ ಸ್ವರೂಪ
2. ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗೆ ಮಾಹಿತಿ ಸಂಗ್ರಹ
3. ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಯ ಸಿದ್ಧತೆ
4. ವಿದ್ಯಾರ್ಥಿಗಳಿಂದ ಪ್ರಬಂಧ ಮಂಡನೆ

2. ಕನ್ನಡ ಐಚ್ಛಿಕ ಪತ್ರಿಕೆಗಳು ಸ್ವರೂಪ, ಪಠ್ಯಕ್ರಮ

1. ಐ.ಎ.ಎಸ್, ಕೆ.ಎ.ಎಸ್ ಪೂರ್ವಸಿದ್ಧತಾ ಪರೀಕ್ಷೆಯ ಪಠ್ಯಕ್ರಮ
2. ವಸ್ತುನಿಷ್ಠ ಪ್ರಶ್ನೆಗಳ, ವಿವರಣಾತ್ಮಕ ಸ್ವರೂಪ, ವಿಷಯ ವೈವಿಧ್ಯತೆ

3. ಕರ್ನಾಟಕ ಚರಿತ್ರೆ

1. ಶಾತವಹನರು, ಕದಂಬರು, ಗಂಗರು, ಚಾಲುಕ್ಯರು, ರಾಷ್ಟ್ರಕೂಟರು, ಹೊಯ್ಸಳರು
ವಿಜಯನಗರ, ಮುಸ್ಲಿಂ ರಾಜಮನೆತನಗಳು
2. ಕಲೆ, ವಾಸ್ತುಶಿಲ್ಪ, ಕರ್ನಾಟಕ ಏಕೀಕರಣ, ಭಕ್ತಿಪಂಥಗಳು

ಘಟಕ- ಎರಡು

4. ಕನ್ನಡ ಭಾಷೆಯ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ

10 ಗಂಟೆ

1. ಕನ್ನಡ ಭಾಷಾ ಚರಿತ್ರೆ
2. ಕನ್ನಡ, ಕರ್ನಾಟಕ ಪದನಿಷ್ಪತ್ತಿ, ಇತಿಹಾಸ
3. ಕನ್ನಡ ವೈವಿಧ್ಯತೆ ಮತ್ತು ವೈಶಿಷ್ಟ್ಯತೆ
4. ದ್ರಾವಿಡ ಭಾಷೆಗಳು- ಸ್ವರೂಪ, ಲಕ್ಷಣ
5. ದ್ರಾವಿಡ ಭಾಷೆಗಳಲ್ಲಿ ಕನ್ನಡದ ಸ್ಥಾನ

5. ಪ್ರಾಚೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯ

1. ಚಂಪೂ ಸಾಹಿತ್ಯ ಪರಿಚಯ
2. ಪ್ರಮುಖ ಕವಿ ಕೃತಿಗಳ ಪರಿಚಯ:
ಶ್ರೀ ವಿಜಯ -ಕವಿರಾಜ ಮಾರ್ಗ
ಶಿಕೋಟ್ಯಾಚಾರ್ಯ - ವಡ್ಡರಾಧನೆ
ಪಂಪ - ಆದಿ ಪುರಾಣ
ವಿಕ್ರಮಾರ್ಜುನ ವಿಜಯ
ರನ್ನ - ಅಜಿತ ಪುರಾಣ, ಗದಾಯುದ್ಧ
ದುರ್ಗಸಿಂಹ - ಪಂಚತಂತ್ರ

ಘಟಿಕ- ಮೂರು

6. ನಡುಗನ್ನಡ ಸಾಹಿತ್ಯ

10 ಗಂಟೆ

1. ನಡುಗನ್ನಡ ಸಾಹಿತ್ಯದ ಸ್ವರೂಪ
2. ವಚನ ಸಾಹಿತ್ಯ
3. ಕೀರ್ತನ ಸಾಹಿತ್ಯ
4. ಷಟ್ಪದಿ ಸಾಹಿತ್ಯ

7. ಹೊಸಗನ್ನಡ ಸಾಹಿತ್ಯ

1. ಹೊಸಗನ್ನಡ ಸಾಹಿತ್ಯದ ಸ್ವರೂಪ
2. ನವೋದಯ ಸಾಹಿತ್ಯ
3. ಪ್ರಗತಿಶೀಲ ಸಾಹಿತ್ಯ
4. ಬಂಡಾಯ-ದಲಿತ ಸಾಹಿತ್ಯ

ಘಟಿಕ-ನಾಲ್ಕು

8. ಭಾರತೀಯ ಕಾವ್ಯ ಮೀಮಾಂಸೆ

10 ಗಂಟೆ

1. ಭಾರತೀಯ ಕಾವ್ಯ ಮೀಮಾಂಸೆಯ ಸ್ವರೂಪ
2. ಪ್ರಮುಖ ಮೀಮಾಂಸಕರು ಭರತ, ದಂಡಿ, ವಾಮನ, ಆನಂದವರ್ಧನ, ಅಭಿನವಗುಪ್ತ, ಕುಂತಕ, ಬಟ್ಟಕಳಂಕ

9. ಪಾಶ್ಚಾತ್ಯ ಕಾವ್ಯ ಮೀಮಾಂಸೆ

1. ಕಾವ್ಯ ಮೀಮಾಂಸೆಯ ಸ್ವರೂಪ
2. ಪ್ಲೇಟೊ ಮತ್ತು ಅರಿಸ್ಟಾಟಲ್ ಚಿಂತನೆಗಳು
3. ಟಿ.ಎಸ್.ಇಲಿಯಟ್‌ನ ಕಾವ್ಯ ಕುರಿತ ಚಿಂತನೆಗಳು

10. ಸಂವಹನ ಕನ್ನಡ

1. ಸಂವಹನ ಕಲೆ: ಮಾತು ಮತ್ತು ಬರಹ
2. ಭಾಷಣ ಕಲೆ
3. ಕಾರ್ಯಕ್ರಮ ನಿರ್ವಹಣೆ
4. ಸಂದರ್ಶನ ಕಲೆ

ಪರಾಮರ್ಶನ ಗ್ರಂಥಗಳು

1. ಸ್ಪರ್ಧಾ ಸ್ಪೂರ್ತಿ ಮಾಸಿಕ
2. ಸ್ಪರ್ಧಾ ಚೈತನ್ಯ-ಸಿ.ಪಿ.ಕೆ.
3. ಕನ್ನಡ ಐಚ್ಛಿಕ-ಸುಬ್ರಹ್ಮಣ್ಯ

4. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ-ರಂ.ಶ್ರೀ.ಮುಗಳಿ
5. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ-ಬೆಂಗಳೂರು ಮತ್ತು ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾಲಯಗಳು
6. ಸಾಲುದೀಪಗಳು
7. ಸಾಮಾನ್ಯನಿಗೆ ಸಾಮಾನ್ಯ ಚರಿತ್ರೆ-ಪ್ರಸಾರಾಂಗ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

ಮೌಲ್ಯಮಾಪನ ವಿಧಾನ

ಆಂತರಿಕ ಮೌಲ್ಯಮಾಪನ: 10 ಅಂಕಗಳು

1. ಅಸೈನ್‌ಮೆಂಟ್
2. ಸಂದರ್ಶನ
3. ಕಿರುಪ್ರಬಂಧ/ವಿಮರ್ಶೆ

ಮುಖ್ಯ ಪರೀಕ್ಷೆ: 40 ಅಂಕಗಳು 2 ಗಂಟೆಗಳ ಪರೀಕ್ಷೆ

1. ಮುಖ್ಯ ಪ್ರಶ್ನೆಗಳು-2 ಬರೆಯುವುದು $10 \times 2=20$ (ಮೂರು ಕೇಳುವುದು)
2. ಚಿಕ್ಕ ಪ್ರಶ್ನೆಗಳು-2 ಬರೆಯುವುದು $6 \times 2=12$ (ಮೂರು ಕೇಳುವುದು)
3. ಟಿಪ್ಪಣಿಗಳು-2 ಬರೆಯುವುದು $4 \times 2=8$ (ಮೂರು ಕೇಳುವುದು)



DEPARTMENT OF HISTORY

VALUE ADDED COURSE - 2022-23

TULU (HISTORY OF TULUNADU, TULU LANGUAGE, TULU SCRIPT, TULU LITERATURE AND TULU CULTURE)

Course Code:VCHIS1910-B

Total Hours 40Hrs

Preamble:

Tulu script which is similar to Thigalaya script, was one of the few original script such as Persian and Latin. At present Tulu language has lost its prominence as a major language. Tulu is one of the five Dravidian languages of south India (Pancha-Bhasha), others are Tamil, Telugu, Kannada and Malayalam). It is spoken in coastal Karnataka and Northern Kerala (Kasaragod district). About 2.5 million people speak Tulu and it their mother tongue. Tulu Nadu is a region where many languages are spoken. While Kannada is the official state language, different languages ethnic communities in Tulu Nadu speak different languages. Tulu, derived from proto- Dravidian is the predominant language spoken by Hindus of various castes and by the Jainans of Tulu Nadu. However, Tulu language with its near extinct script has been generating much enthusiasm amongst the linguists, as it is now believed to be one of the oldest Dravidian languages. Tulu is the only developed language that has not received the recognition it is due.

Learning objectives:

- To expose the students to know the prominence as a major language of Tulunadu
- To know about History of Tulunadu, Language, script, and Literature
- To identify the values, Customs traditions and motivation for students know about Tulu Culture
- To identify the present status of Tulu Language and literature.
- To Know about the Tulu activities in other states and Country
- To study Recognitions and Curriculum Tulu in the College.

Learning Outcomes:

- Students will be able to cultivate interest about study Tulu language and script.
- Tulu language with its near extinct script has been generating much enthusiasm amongst the linguists among students.
- Successes to save Tulu as one of the oldest Dravidian languages
- Students able to read and write Tulu script.
- Students able to write articles in Tulu language.
- Students understands the importance of Tulu Culture.

Hour 5

Unit I: History of Tulunadu: Its Geographical area- Variations- Brief History of Tulunadu, Ruling Families of Tulunadu.

Hour 7

Unit II: Tulu Language: Introduction of the Language- Importance – Nature and Present Scope- Primitivity of Tulu Language. Early reference in Indian as well as Greek and Roman Literature. Modern Tulu –regional variations - Brahmin Tulu- Jain Tulu.

Hour 8

Unit III: Tulu Script: Introduction, Origin of the script, Alphabets, Learning of Tulu script. – Vallathattu, Tigalari, Brahmi script, evolution, difference between Tulu and Malayalam script.

Hour 8

Unit IV: Tulu Literature: Folk literature, sandhis and paddanas, Phases and idioms, proverbs, Early reference in Inscriptions, Classical Literature and Secular literature in Tulu, Work of Bassel mission. Tulu dictionaries, Tulu Mahabharato, Devi Mahtme- Kaveri- Bhagavatha Anthargatha Ramayana- Karnaparva.

Hour 7

Unit V: Tulu Culture: - Recreations- Yakshagana, Drama, Bhoota worship, Naga worship, Agriculture, tulu people, Religious practices and worship-

Hour 5

Unit VI: Present Status of Tulu: Tulu people in other parts of India and abroad. Tulu Accademy. Tulu Sanghas, Association, Tulu activities in other states and Country. Recognitions and Curriculum in College.-

Reference Books

1. Balakrishna Polali- “ Telpu Telikeda Katekulu” Karnataka Tulu Sahithya Academy , Mangalore,2002.
2. Gururaja Bhat Dr. P. “ Studies in Tuluva History and Culture, Kallianpura 1975.
3. Kishore Kumar Rai, Dr. “ Tulunada Samshodhane “ Published by Tulu Sahithya Accdemy 2008.
4. Muralidhar Upadhyaya Hiriyadka “ U.S. Paniyadi” Karnataka Tulu Sahitya Academy, 1996.
5. Prabhakar Joshi “ Mandara Keshava Bhatr” Karnatyaka Tulu sahitya Accademy 1998.
6. Radhakrishana Bellor “ Tulu Lipi Parichaya”‘ Karnataka Tulu Sahitya Academy Mangalore 2008.
7. Raviraja Ballal ‘ Namana Parampare” Yagapurusha Prakashana, Kinnigoli 2012.
8. Sathish Rai Bellippadi Dr. “ Tulu Appena Ter’ Mysore 2009.
9. B.V. Vivek Rai. History of Tulu Literature, Mangalore 2012.
10. Dr. K. Chinnapa Gowda, Bhuutaaradhane:Kelavu Adhyayanagalu 2005 Mangalore.
11. Dr. U.P. Upadhyaya Tulu Nigantu Rastra Kavi Govinda Pai Samshodhana Kendra Udupi 1997.
12. Tulu Sangha Ujire “ Dompa “ Vishwa Tulu Sammelena 2009.
13. Tammaya B.C.Road “ Tuluve” Journal (monthly of Tulu Literature).
14. Dr. Divakar k. “ Tulunadina Acharanegalu”- Varshika Aavarthanada Samskritika Adhyayana, Ujire. 2013.
15. P. Ramakrishna Achar “Gadedulayida Katekulu” Puttur 2014.
16. Tulu Sahitya Charithr,, A.V. Nanada (ed) Hampi University, 2008.

Scheme of Examination

Internal Assessment 10 marks

Marks based on

- a) Assignments on the topic
- b) Field visit report
- c) Minor project
- d) Group Discussion

Term End Examination 40 marks

1marks 5 questions = 5

5marks 3 questions =15

10marks 2 questions= 20

Duration of Examination 02 Hours



DEPARTMENT OF POLITICAL SCIENCE

VALUE ADDED COURSE - 2022-23

WOMEN EMPOWERMENT AND DEVELOPMENT

Course Code: VCPOL1912

Total Hours: 40 Hrs

Preamble

This course aims to inspire and empower women and men across the Nation to engage in purposeful career development and take on leadership for important causes to lead change with more conviction and confidence and improve our workplaces and communities for all. By offering more complex understandings of issues related to professional women and work, the course will help you increase self-knowledge about your own values and vision, as well as enhance your capabilities as a leader.

Learning objectives:

- To understand the basic concepts, principles and methods of Women Empowerment
- To understand the dimensions of Women Empowerment in the changing Socio Economic Scenario
- To acquire skills to organize Women Empowerment Programmes
- To channelize the youth potential for 'Gender mainstreaming'

Learning outcomes

On successful completion of the course, the students will be able to:

- Get acquainted with the dynamics of Women Empowerment and the know-how for channelizing their potential for 'Gender Sensitization'
- Inculcate values of concern for social transformation and measures to ensure gender justice
- Promote social relationship which leads to intellectual and personal development

Syllabus

UNIT I: Women Empowerment **3 hrs**

- Meaning, Definition, Nature and Scope.
- Objectives and significance

UNIT II **2 hrs**

- Factors determining Women Empowerment
- Challenges of Women Empowerment

UNIT III **3 hrs**

- Status of women in India: Sex Ratio, Education, Health, Economic, Political, Social and Cultural

UNIT IV **3 hrs**

- Constitutional and legal provision for women empowerment.
- Women's rights in India
- Fundamental Rights and Directive Principles

UNIT V **3 hrs**

- Women entrepreneurship
- Role of SHG'S in Empowering Women
- Marketing Challenges for SHG'S

UNIT VI **3 hrs**

- Social Construction of Gender and Gender roles need for re- Social Construction

UNIT VII **3 hrs**

- Event Management: Planning; Communication, Organizing Skills and Public Relations

Project Work

Practical: 20 hrs

- Organizing Women Empowerment Programmes for Two SHG's, Women Organizations, and Women Neighborhood Groups.

Teaching Methods:

- Lecture, LCD Presentation, Seminar, Group Discussion, Organizing Women Empowerment Programmes and Project Report Presentation.

Assessment Criteria:

- Theory: Written Test – Descriptive - Marks: 50 , Duration: 2 hr
- Practical: Organizing CEP's and Project Report Assessment – Marks: 50

Certification:

Marks	80 – 100	60-79	50-59	35-49	Below 35
Grade	A+	A	B+	B	C

Feedback:

- From the course participants at the end of the course

Book for Reference:

1. Panigrahy (R L), 2006, Women Empowerment, Delhi, Discovery Publishing House Pvt. Ltd
2. Raheem(A Abdul), 2011, Women Empowerment Through Self-Help Group(Shgs), Delhi, New Century Publications
3. Menon (Mennon) Ed, 1999, Gender And Politics in India, India, Oxford University Press
4. Rosalind Gill, 2007, Gender and The Media, U.K , Polity Press
5. Veenadevi, 2012, Gender Equality And Women's Empowerment In India, jaipur, Prateeksha Publications
6. Ramegowda (A), 2007, Gender Inequality, Delhi, Rawat Publications
7. Bhargava (Rajul), 2010, Gender Issues Attestations and Contestations, Delhi, Rawat Publications
8. Neluka Silva, 2004, Gendered Nation, New Delhi, sage publication
9. Agnes & Others, 2016, Women & Law In India, Delhi, Oxford University Press India
10. Uma Chakravarti, 2003, Gendering Caste Through A Feminist, Calkatta,STREE
11. Kumar(Raj) Ed, 2003, Women and Economic Development, New Delhi, Deepa & Deepa Publications
12. Heggade(Odeyar D), 1984,Women And Economy Development: A Study of The Different Facets of Their Role in India, New Delhi Ramya Roopa Prakashana
13. Karl Marilee 1995, Women And Empowerment U.S.A, Zed Books
14. Jyotsa Mishra, 2000, Women and Human Rights, New Delhi, Kalpaz Pubication
15. Sarkar (Sumit) & Tanika Sarkar, 2008, Women and Social Reforms in Modern India, USA, Indiana University Press

SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS)

UJIRE – 574 240



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(Re-Accredited by NAAC at 'A++' Grade)

Ph: 08256-236221, 236101(O), Fax: 236220

e-Mail: sdmcollege@rediffmail.com, sdmcollege@sdmcejire.in, Website: www.sdmcejire.in

DEPARTMENT OF HOME SCIENCE

VALUE ADDED COURSE - 2022-23

HOME MANAGEMENT FOR HAPPY LIVING

Course Code: VCHOM1914

Total Hours: 40 Hrs

Preamble:

Home management is the vital factor in every members contributing to the overall health, happiness and wellbeing of the family. Management today is an important factor in every sphere of activity. The concept of management deals with achieving desired goals through planned activity. It is an essential component of family living. Home management for happy living is the natural outcome of human relationship in the home environment. When the family is established, management becomes one of the major responsibilities of the family living.

Learning objectives:

- To identify the application of the principles of management.
- To study the values, standards and goals which give meaning to the lives, thoughts, feelings and experiences of the members of the family
- To identify the family desired goals.
- To understand the management of resources in our day to day life.

Learning Outcomes:

- Students will be able to plan, control and evaluate the use of resources of family for the purpose of attaining family goals.
- Effective management enhances the chances of achieving goals by making wise decisions and proper utilization of resources.
- Students will be able to develop creative and innovative skills
- Students will be able to manage family income and its proper distribution.

Unit-I Home Management**Hours: 8**

1. Meaning, Process, Classification and Characteristics
2. Money Management- Family Income, Budgeting, Savings, Investment
3. Consumer Education – Needs for education, Responsibility, Problems faced by the consumer, and Rights

Unit-II Textiles and Clothing Hours: 8

1. Fibres- Meaning and Classification
2. Care of Clothing (Cotton, Silk, Wool)
3. Stains and stain removal methods- Dip, Drop, Steam, Sponge
4. Traditional Indian Textiles and Embroidery

Unit-III Principles of Food and Nutrition Hours: 8

1. Meaning of Food, Nutrition, Nutrients, Health, and Malnutrition
2. Classification of Food, Classification of Nutrients, and Food guide pyramid
3. Scientific and safe cooking, Methods of cooking and kitchen safety

Unit-IV House Keeping and Interior Decoration Hours: 8

1. Care and maintenance of household equipment's (Mixer, Oven, Refrigerator, Washing machine, and Geyser)
2. Flower Arrangement- Types, Care and maintenance, Materials and Flowers
3. Etiquette- Planning and organizing a party, Table setting, and Role of Hostess

Practicals:**Hours: 8**

1. Basic Embroidery making- Chain stitch, Cross, Herringbone, Blanket, and French knot
2. Napkin Folding
3. Cards making- Greeting card, Thank you card, Get well card and Book mark card
4. Preparing one nutritious recipes without fire.

Reference books:

1. Bernard P Corbman, (2001), Textiles-Fiber to Fabric, 6th edition, Mc Graw Hill International Editions, New Delhi.
2. Nickel and Dorsey, (1986), Management in Family Living, 3rd Edition, John Wiley & Sons Inc Publication, New York.
3. Premavathy Seetharaman, Praveen Pannu, (2005), Interior Design and Decoration, CBS Publishers and Distributors, Bangalore
4. Swaminathan M S, (1985), Essentials of Food and Nutrition Fundamentals Aspects, 7th Edition, New age International Publishers, Bangalore.
5. Varghese, Ogle and Srinivasan, (1980), Home Management, Wiley Eastern Ltd., New Delhi.
6. Wingate I. B, (1976), Textile Fabrics and their selection, Englewood Cliffs Prentice Publication, New Jersey.

Scheme of Examination**Internal Assessment 10 marks**

Marks based on

- a) Assignments on the topic or
- b) Survey report or
- c) Minor project

Term End Examination 40 marks

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DEPARTMENT OF ENGLISH VALUE ADDED COURSE - 2022-23 LITERARY TRANSLATIONS

Course Code: VCENG1918-B

Total Hours: 40 Hrs

Preamble

We, the Department of English, believe in the power of language to elevate human minds. We believe that knowledge and an understanding of multiple languages will lead to a mutual understanding between different cultures and respect for fellow human beings. With these ideals in view, we have designed our curriculum according to the following objectives.

Learning objectives

- Providing a basic training in translation
- Focussing the learners on the cultural and linguistic specificities of source and target language
- providing maximum exposure on the translated texts

Learning outcome

- Learners are expected to translate a literary text from Kannada to English and vice versa
- Learners develop cultural linguistic and literary sensitivity while translating the texts

Syllabus

Sl No	Topic	Duration
1	Introduction to the course	1 Hour
2	Awareness about the source language	5 Hours
3	Awareness about the target language	5 Hours
4	Translation at the level of vocabulary	5 Hours

5	Translation at the level of usages and expressions	5 Hours
6	Grammaticality in literary translation	5 Hours
7	Identifying the tone of the speaker and finding cultural specificities	3 Hours
8	Context specific translation	5 Hours
9	Machine Translation	4 Hours
10	Test and Evaluation	2 Hours
11	Total	40 Hours

Teaching Methods

- Classroom discussion method
- Library reference

Assessment criterion

- Written test

Certification

- The results of the successful candidates shall be classified in terms of grades. An eight point grading system which is based on the actual absolute marks scored and alpha-signgrade as described below shall be adopted

% Marks	90-100	80-89	70-79	60-69	50-59	40-49	35-39	<35
Alphasign grade	A++	A+	A	B+	B	C+	C	U

Feedback

Written feedback shall be collected from the participants

Oral feedbacks shall be collected timely by the resource persons

Reference

Modules prepared by the Department

Detailed Plan for the Certificate Programme

Day	Activity
1	Introduction
2	Awareness about the source Language
3	Linguistics of the Source Language
4	Culture of the Source Language
5	Vocabulary/Diction of the Source Language
6	Grammar of the Source Language
7	Awareness about the target language
8	Linguistic Awareness
9	Cultural Awareness
10	Vocabulary/Diction
11	Grammar
12	Translation at the level of vocabulary
13	Naming Words/ Nouns
14	Action Words /Verbs
15	Adjectives
16	Adverbs
17	Translation at the level of usages and expressions
18	Collocations
19	Idiomatic expressions
20	Phrasal verbs
21	Figurative uses

Day	Activity
22	Grammaticality in literary translation
23	Simple sentence structures
24	Compound Sentences
25	Complex Sentences
26	Degrees of Comparisons
27	Identifying the tone of the speaker and finding cultural specificities

28	Finding the gist and expressing it in another language
29	Expanding and elaborating the idea in target language
30	Context specific translation
31	Translating a paragraph [Prose]
32	Translating a stanza [Poem]
33	Translating a write-up/Notice
34	Translating a short story
35	Machine Translation
36	Machine Translation: Internet tools for translation
37	Machine Translation: Google Translator
38	Machine Translation: Post Translation Editing
39	Test and Evaluation
40	Test and Evaluation



DEPARTMENT OF CHEMISTRY
VALUE ADDED COURSE - 2022-23
CHEMISTRY IN DAILY LIFE

Course Code: B.Sc CHEM CC1

Total Hours: 40 Hrs

Preamble

Chemistry is a major part of our everyday life. One can easily observe this branch of science in different spheres of human life such as in the food we eat, the air we breathe, the various cleansing agents we use, so much so that even human emotions are sometimes a result of chemical reactions within our body. Many of the changes we observe in the world around are caused by chemical reactions. Knowing some chemistry can help in making day-to-day decisions that affect our life.

Learning objectives

- To expose the students to the basics of chemistry in our life
- To create an awareness about the food, nutrition and health hazards
- To provide basic information about drugs used for various diseases
- To give an elementary idea about Ayurvedic medicines

Learning Outcomes

- The students will gain knowledge about various chemical products used in our day today life
- The students will get basic information about the composition of various polymers and their products used in our daily life
- The students will know the role of food additives and chemicals added to food items and their health hazards
- The students will gain knowledge about various components of environment and they will learn and know the causes of different types of pollution and their control measures
- The student will know about different types of medicines and their importance in health care

Syllabus

UNIT I

Chemistry in Housing and Household: 2 Hours

Chemistry and house hold products, household cleaners, soaps and detergents, stain removers, tooth pastes. Preparations of house hold chemicals.

Cosmetics: 3 Hours

General formulations and preparation of Talcum Powder, Tooth Pastes, Shampoos, Nail Polish, Perfumes, Skincare, Hair care, Antiperspirants, Mascara, Eye Shadow and Eyebrow Pencils, Sun protection lotions and creams. Possible hazards of cosmetics use.

Chemistry in Consumer Products: 3 Hours

Diamonds and Gems, Jewellery and Ornaments, Metals and Metal-alloys, Electroplating, Wax, Candles, Shoe polish, Mosquito coils, Common salt.

Plastics: 2 Hours

Definition of monomer and polymer. Types of polymers. Elementary idea of polymers like Polythene, PVC, Bakelite, Polyesters, Resins and their applications. Natural Rubber and Synthetic Rubber, Vulcanization.

UNIT II

Food and Nutrition: 4 Hours

Definitions, sources and physiological importance of Carbohydrates, Proteins, Fats, Minerals and Vitamins. Balanced diet.

Detection and Identification of Adulterants in Milk, Ghee, Oil, Curd, Sugar, Honey, Rice flour, Jaggery, Common salt, Coffee powder, Tea, Chili powder, Pulses and turmeric powder.

Practicals: Detection of Adulterants in food stuffs.

Chemicals used in Food and its Health Hazards: 3 Hours

Food additives, leavening agents, and sweeteners. Food preservatives -Methods of preservation-Low and High temperature, Dehydration. Chemicals in food production. Food safety methods.

Chemicals in Food Production:**3 Hours**

Manures and Fertilizers. Need and uses of nitrogenous fertilizers , phosphates fertilizers and potassium fertilizers. Hazards of user fertilizers. Pesticide - definition and examples.

UNIT III**Chemicals of Life:****3 Hours**

Water-The Fundamental Substance of Life, Purification of water, Hormones, Lipids, Nucleic acids, Vitamins, Minerals, Carbohydrates and Proteins.

Chemistry and our Environment:**4 Hours**

Air, Major Regions of the Atmosphere, Chemical Composition of the Atmosphere, Impact of chemical Pollutants in the Environment, Climate Change and global Warming. Motor Vehicles and Chemical Pollution, Photochemical Smog, Acid Rain, Atmospheric Hazards of ionizing Radiations, Chemistry and the Oceans, Earthquake and Tsunami. Nuclear Energy, Solar Energy, Water Energy, Wind Energy, Energy from Biomass and Garbage.

Environmental Pollution:**3 Hours**

Types of pollution-Air Pollution, Water Pollution, Noise Pollution, Soil Pollution, Marine Pollution, Thermal Pollution, Green Chemistry for Clean Technology.

UNIT IV**Chemistry in Medicine and Health Care:****6 Hours**

Definition – Important Aspects –History and development. Important terms used in chemistry of drugs. Classification of drugs- anti bacterials, anti fungals, analgesics, antibiotics, anesthetics, anti malarials, anti histamines, anti hypertensives, antipsychotics, anti virals, sedatives and hypnotics, anti neoplastic agents, cardiovascular drugs, anti inflammatory drugs and anti fertility drugs. Prescriptions–Reading and understanding of prescriptions. Calculation involved in dispensing. Dose and dosage of drugs. Applications of Chemistry in Health care: X-ray, CT scan, and MRI

Ayurvedic Medicines:**4 Hours**

Introduction, philosophy, classification and identification of biological activity of plants, plant products, bhasmas- formulation, methods of formation and analysis of active ingredients.

Reference Books

1. Kirpal Singh (2012) Chemistry in Daily Life, Third Edition, PHI Learning Private Ltd New Delhi.
2. Dr. S.S. Dara & Dr. D.D. Mishra (2011) A Text book of Environmental Chemistry and Pollution Control, Fifth Edition, S. Chand & Company Limited, New Delhi.
3. Ashutoshkar (2010), Medicinal Chemistry, Fifth Edition, New Age International (P) Limited, Bengaluru.
4. G.R.Chatwal (2009), Biopharmaceutics and Pharmacokinetics, Himalaya Publishing House, Mumbai
5. M.M.Uppal (2001), Engineering Chemistry, Khanna Publishers, New Delhi
6. S.S.Dara (1993), A Text Book of Environmental Chemistry and Pollution Control, S Chand and Company Ltd. New Delhi.
7. Raghupathi Mukhopadhyay, Sriparna Datta, Rajib Kumar Das (2011) ,Text Book of Pharmaceutical Chemistry and Medicinal Chemistry, Books and Allied(P) Ltd., Kolkata

Scheme of Examination

Term end examination

Multiple choice questions – 25 questions each carrying 2 marks

Duration of examination: 1 Hour Maximum marks: 50



DEPARTMENT OF CHEMISTRY
VALUE ADDED COURSE - 2022-23
PHARMACEUTICAL CHEMISTRY

Course Code: VCCHE1902

Total Hours: 40 Hrs

Preamble

Pharmaceutical science is a major field of Chemistry which involves different areas of science, which are used to bring out pharmaceutical drug compounds. Pharmaceutical chemistry and Organic chemistry are involved in the preparation of pharmaceutical drugs. Pharmaceutics address the problems in making drug formulations like capsules, tablets, injections etc. The area of pharmacology deals with the study of the efficacy and toxicities of newly designed pharmaceutical compounds.

Learning Objectives:

- To provide basic information about anatomy human body
- To provide basic idea of structure and functioning of various body systems
- To give an elementary idea of medicines and drugs used in daily life
- To provide basic information on the importance of diagnostic tests

Learning Outcomes:

- Gain basic idea of human body its normal functions
- Understand the chemistry of medicines and drugs used in our everyday life
- Explain the sources of common diseases and their treatment
- Understand the importance of clinical chemistry in detection of routine functions various organs of our body

Syllabus

UNIT I Anatomy and Physiology:

10 hours

Introduction – mitochondria and microsomes. Elementary tissues of the body. Classification of joints and their disorders. Blood –Function and composition of blood, RBC, WBC, platelets, Mechanism of blood clotting, Anemia, Blood groups and functions of lymph glands. Brief description and functioning of Digestive system, Respiratory system, cardiovascular system, Urinary system, Reproductive system, Nervous system, Eye, Ear

UNIT II

Medicines in daily life:

10 hours

Introduction to drug- History and development. Types of medicines Ayurvedic, Allopathic, Homeopathic. Important terms used in drugs-Chemotherapy, Chemotherapeutic agents, Pharmacokinetics, Pharmacodynamics, Absorption, Distribution, Elimination and Dissolution. Medicines used in daily life- antibacterials, antifungals, analgesics, antibiotics, anesthetics, anti malarials, anti histamines, antihypertensives, antipsychotics, anti virals, sedatives and hypnotics, anticonvulsants, antihypertensive drugs, antineoplastics, cardiovascular drugs, anti inflammatory drugs and anti fertility drugs.

Prescriptions –Reading and understanding of prescriptions. Calculation involved in dispensing. Dose and dosage of drugs, Different dosage forms of drugs. Over the counter medicines and Generic medicines.

UNIT III

Clinical chemistry:

10 hours

Clinical significance and analysis. Detection and importance of blood glucose, cholesterol, triglycerides, hypertension, creatine and creatinine. Role and diagnostic tests of electrolytes. Clinical significance of enzymes, uric acid and urine analysis. Detection of anemia, sign and symptoms, diagnosis and testing. Importance and detection of liver function, kidney function and gastric function. Imaging-X-ray, ultrasound sonography, MRI, CT scan.

UNIT IV

Common diseases:

10 hours

Introduction, elementary account of air borne and water borne diseases- symptoms and treatment. Diseases due to nutritional deficiency, organ disfunction, injuries, allergies, genetic defects, life

style diseases like diabetes , piles, obesity , hypoglycemic cells and their treatment .Diseases of nervous system, AIDS, cancer, respiratory diseases their treatment, Diseases due to metal and metal ions imbalance, Diseases associated with hypo and hyper secretion of hormones. Diseases caused by deficiency of vitamins and their treatment. Cardiovascular diseases.

Reference Books:

1. Ashutosh Kar (2010), Text Book of Medicinal Chemistry, Fifth Revised and Expanded
2. Edition, New Age International Publishers, Bangalore
3. Chatwal (2009), Biopharmaceutics and Pharmacokinetics, Second Revised and Enlarged
4. Edition, Himalaya Publishing House, Bangalore
5. Raghupathi Mukhopadhyay, Sriparna Datta, Rajib Kumar Das(2011), Text Book of
6. Pharmaceutical Chemistry and Medicinal Chemistry, Books and Allied(P) Ltd., Kolkata 84
7. Praful B. Godkar (2006), Textbook of Medical Laboratory Technology, Second Edition,
8. Bhalani Pulication House, Mumbai
9. P.S Verma and V.K.Agarwal (2016), Cell Biology, S.Chand and Company Pvt Ltd, New Delhi
10. AminulIslam (2011), A Text Book of Cell Biology, Books and Allied (P)Ltd, Kolkata
11. S.Rastogi (1996), Cell and Molecular Biology, New Age International Publishers,New Delhi
12. C.B.Powar (1981), Cell Biology,Himalaya Publishing House Girgaon
13. Dr.P.S.Verma,Dr.V.K.Agarwal (1974), Cell Biology, Molecular Biology, Evolution and
14. Ecology, S.Chand and Company Pvt Ltd.,New Delhi

Scheme of Examination

Term end examination

Multiple choice questions – 25 questions each carrying 2 marks

Duration of examination: 1 Hour Maximum marks: 50

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DEPARTMENT OF HINDI

VALUE ADDED COURSE - 2022-23

COMMUNICATION HINDI & TRANSLATION

Course Code: VCHIN1917

Total Hours: 40 Hrs

Preamble:

For students who have a good grasp of the language. Can sustain a fluent and accurate conversation with a native speaker and understand and produce complex text. Perfect for those looking to work or relocate to India or for those living abroad who might be studying

For students who have no experience or exposure to the Hindi language and wonder if it's for them. Perfect for those looking to get a feel for the language.

Learning Objectives:

- To help the similarities and differences in good and communicative Translation and acquaint the learners with the better standards of Translation as theory as well as practice.
- To encourage the learners in practice to perform as Translators in multiple areas of Translation such as Literary, academic and social media legal and administrative systems, Commerce and corporate world.

Learning Outcomes:

- The ability to understand Hindi spoken at normal speed and converse on everyday topics with reasonable accuracy and fluency.
- The ability to read/Translate/summarize/extract information/draw inferences from authentic. Hindi texts drawn from a range of sources.
- Students will be able to read and write Hindi properly.

Syllabus:

Unit-I: Grammar- parts of speech- singular, plural- students Activities.

Unit-II: Conversation- dialog delivery- Group discussion- students Activities.

Unit- III: Definition of Translation- important facts- origin and development word Translation- students Activities.

Unit –IV: Banking Terminology English to Hindi- Administrative Terminology- students Activities, simple sentence for Translation.

References:

1. Anuvaad kala kuch vichar : Anandprakash khemani, vedprakash Yash chand & Company.
2. Anuvaad ki vyapak sankalpana : Prof Dilip singh .Vaani Prakashan Delhi

Scheme of Examination.

Internal Examination: Assignment / MCQ test. For 10 marks

Term end examination - 40 marks.



DEPARTMENT OF LIBRARY
VALUE ADDED COURSE - 2022-23
LIBRARY MANAGEMENT

Course Code:

Total Hours: 40 Hrs

Preamble: To facilitate access and provision of information sources. To train students in using Information Technology tools and techniques in information access, service, management and archival activities and library management system is software that is designed to manage all the functions of a library

Learning objectives:

- To develop in student's potential for critical thinking particularly concerning goals of *Libraries and Information Centers*.
- To develop the basic understanding of theoretical and practical aspects of *Library and Information Science*.
- To collect, store, organize, retrieve and make available the information sources to the information users
- To manage & track the daily work of the library
- To gain knowledge on tradition an modern Library services & practices

Learning Outcomes:

- Knowledgeable about good Library practices.
- Students will be able to learn library Services
- Students will cultivate the reading habit of using digital and print sources.

I. Library and Society. (10 Hours)

- a. Introduction , role of Libraries and Information Centers in Modern society
- b. Laws of Library Science
- c. Types of Libraries and Features
- d. User Studies and User Education

II. Library Management. (10 Hours)

- a. Principles of Library Management
 - i. General Principles
 - ii. Library Organizational Structure
 - iii. Physical Planning of Library
- b.
 - i. Selection Principles, Different Types of Selection Tools & Their Importance
 - ii. Acquisition Procedures and Technical Processing
- c. Maintenance and Use of Library
 - i. Circulation Work, Maintenance shelving, Stock Verification, Binding and Preservation
- d. Library Finance and Budget
 - i. Finance, Accounting, Budgeting

III. Need and purpose of Library Classification (5 Hours)

- a. Schemes of Classification: DDC,CC,UDC
- b. Theory of Library Classification
- c. Practical Work

IV. Library Catalog (5 Hours)

- a. Objective, Purpose & Functions
- b. Library Catalogue Code & Types of Catalogue
- c. Practical Work

V. Reference and Information Sources (5 Hours)

- a. Geographical Sources
- b. Biographical Sources
- c. Dictionaries
- d. Encyclopedia
- e. Services – CAS & SDI

VI. Information & Technology (5 Hours)

- a. Introduction to Information Technology
- b. Library and Information Networks
- c. Library Software and Application
- d. Library Automation

References:

1. Dr.P Sadashivamurthy (2005) - Dictionary of Library & information Science – Parvathi Book Center BNG
2. Karl Bridges (2003) - Expectations of Librarians in the 21st Century – Greenwood Press
3. William Y Arms (2005) Digital Libraries – Ane Books

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