Criterion I
Curricular Aspects

1.3.2 Syllabus of Value Added Courses

(2019-2020)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF BOTANY
G-BASIC
SYLLABUS

Objective
The very basic course as the name implies, specially designed for the very novice to make them a "wellaware" type of user.

Duration 36 Hrs. /1 Month

Course outcome

To provide a basic understanding of Microsoft Office and enhance the computer skills among students

Exit profile
- Able to operate computers with ease
- Use MS Office applications for office automation
- Use Internet for basic requirements such as surfing and searching
- Create and use E-mails

Career path
- IT Educator
- Office Assistant
- Office secretary

Faculty Skill Set
- Knowledge in Computer Basic & MS DOS
- Knowledge in Windows 7/8 & applications
- Knowledge in MS Office 2013/2016

Hardware and Software Requirements
- Operating System: Windows 7/8
- Minimum Memory: 512 M
- Recommended Memory: 2 GB / 4 GB
- Minimum Disk Space: 500 MB free
- Recommended Disk Space: 1 TB
- **Browsers: Mozilla / IE 8**

PRINCIPAL IN-CHARGE
VIMALA COLLEGE
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THRISSUR - 680 009

Course content

G-TEC COMPUTER EDUCATION
ISO 9001:2008 CERTIFIED
Admin Office: House of G-TEC, Calicut -02., India Corp. Office: Peace Centre,
Singapore- 228149
Ver 4.0 505
Computer Basic & MS DOS
Windows 7/8 & Introduction to OS/GUI
Introduction to MS Office 2010/2013/2010 – Word, Excel, PowerPoint
Internet

Trainer Guide

Computer Basic & MS DOS (8 Hrs)

Fundamentals- History of computing, Modern Computers, Computer Hardware, Input Devices, Output Devices, System Unit, Storage Devices, Removable Storage Devices, Types of computers, Computer Software, Communication Devices, Accessories. About DOS, DOS File system, Elementary and intermediate DOS commands: DIR, DATE, TIME, CLS, VER, DISKCOPY, FORMAT, VOL, LABEL, CD, MD, RD, PROMPT, MOVE, COPY, TYPE, DEL, REN, MOVE, and RD /S; Advanced DOS
commands: ATTRIB, SUBST, XCOPY, DOSKEY, and the MS-DOS Text Editor.

LAB: Introduce Computer I/O devices, System Unit, Use run command and menu to switch to DOS mode, Practice DOS commands, use advanced DOS Commands

Windows 7/8 & Introduction to OS/GUI (10 Hrs)

Introduction to Windows 7/8, Mouse Basics, Working in Windows 7/8, Learning More about the Mouse, Components of a window, Quitting Windows 7/8, Using Explorer Window, getting familiar with desktop, window sizing, creating program shortcuts, Windows Accessories.

LAB: Introduce OS, the basic components of windows, task bar, start button, opening programs using start button, viewing recently used documents, quick launchers, adjusting time/date, switching between programs using mouse and keyboard shortcuts, and all basic computer operations. Windows Explorer saving file, printing a file, installing a printer, files and folders in Windows, Opening Explorer Window, parts of an Explorer window, basic file operations through Explorer window, Emptying Recycle bin, window sizing, creating program shortcuts. Windows Accessories: Paint, WordPad, Calculator, Windows Media player, Playing VCDs and DVDs, playing movie in full screen mode, Saving movies, working with images, Copying photographs from Digital camera, using removable storage devices (pen drives, data discs).

MS Office (10 Hrs)

Getting Started with Microsoft Word 2013/2016

Exploring New Features in Word 2016, Starting Microsoft Word 2016, Creating a New Word Document, saving a Word Document, Applying Basic Formatting, Working with Styles, Applying Bulleted and Numbered Lists, Using Cut, Copy, and Paste Commands, Using Find, Replace, and Go to Commands, printing a Word Document, Opening an Existing Word Document, closing a Word Document, Exiting Microsoft Word

Getting Started with Microsoft Excel 2013/2016
G-TEC COMPUTER EDUCATION

Exploring New Features in Excel 2016, Creating a New Excel Workbook, saving an Excel Workbook, Adding Data to Cells, Adding Data using AutoFill, Modifying Cells, Rows, Columns, and Worksheet, Hiding and Unhiding Rows and Columns, Wrapping Text, Changing Number Formats, Adding Borders to Cells, Applying Conditional Formatting, Renaming a Worksheet. Accessing Workbooks from the Web, Opening an Existing Excel Workbook, printing a Worksheet or a Workbook, closing an Excel Workbook, Exiting Microsoft Excel

Getting Started with Microsoft PowerPoint 2016

Exploring New Features in PowerPoint 2016, Creating a Blank Presentation, saving a Presentation, Adding and Removing Slides, adding a Title and Subtitle to a Slide, Adding Text to a Slide using Text Boxes, Setting Up and Running a Slide Show, Broadcasting PowerPoint Slideshows, Recording Slideshows as Videos, Pack aging a Presentation on a CD, Opening an Existing Presentation

Internet, E-mail and Chatting (8 Hrs)

What is Internet, basic concepts and html, Internal architecture, browsers, search engines and e-mail providers. Browsing, Searching using search engines, e-mails and chatting.

LAB: Introduction to Internet, concept of web, website, server and client. Introduce Internet Explorer and its components (favourites, history, bookmarks, internet options), search using a key Word, eXPerimenting links (text and image), dynamic websites and static websites.

Create an email account and basic mail operations (reading mail, sending mail, erasing mail, spams/trash, sent mails, email settings, signatures, inbox and filtering). Chatting using the same account, installing a chat software, setting the visibility, setting picture and text, adding/removing contacts, sending chat request, blocking a particular user.

EXAMINATION PROCEDURES
MARK DISTRIBUTION

Theory   50 marks
Computer Basics, MS DOS, Windows 7/8, Introduction to OS, Introduction to MS Office, Internet and Email

Practical   50 marks
Computer Basics, MS DOS, Windows 7/8, Introduction to OS, Introduction to MS Office, Internet and Email

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF CHEMISTRY

A PRACTICAL FRAMEWORK TO RESEARCH AND DEVELOPMENT

SYLLABUS

Course Outcomes

CO1: Apply the methods of scientific research

CO2: Built knowledge on chromatographic and spectroscopic methods

CO3: Acquire proficiency in data analysis

CO4: Enable the students to develop analytical skills

Course Content   **Total Hours: 40**

Sl No	Content	Hrs
1.	**Module 1: Research discover and design**	**(10 Hours)**
	Overview of Research Process, familiarizing students with a variety of research methods, including survey research, interviewing, participant observation, case studies, comparative analysis, and the use of documentary/primary sources, Conducting a literature review, Constructing Hypotheses, Identifying Variables, Types of Study Designs, Selecting a Method of Data Collection, To organize and describe data and effective display, Ethical Issues in Research, Validity and Reliability in Research, Scientific paper writing. Introduction to Journals and Publishers, Publishing a scientific paper, Peer review process.	
2.	**Module 2: Instrumental Techniques**	**(10 Hours)**
	Chromatographic techniques, Column Chromatography, Paper chromatography, Thin layer chromatography Fourier-transform infrared spectroscopy, UV-Visible Spectroscopy, Photoluminescence Spectroscopy, Optical methods- Polarimeter, Turbidimeter	
3.	**Module 3: Data Analysis**	**(10 Hours)**
	General introduction to Origin Pro for converting data to graphs, Chem draw for 2D and 3D representation of molecular structure. Research work presentation	
4.	**Module 4: Practical approach to Chemical analyses**	**(10 Hours)**
	Food adulteration, Structural characterization, Separation identification and purification of components by Chromatographic methods	

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF COMPUTER SCIENCE

PYTHON FOR DATA SCIENCE

SYLLABUS

Course Outcomes:
- Understand various statements, data types and functions in Python
- Develop programs in Python programming language
- Understand the packages in Python for Data Science

Course Content   **Total Hours: 50**

Module I: Introduction, Features of Python. The Basics- Literal, Constants, Numbers, Strings, Identifier, Naming, Data Types, Objects, Output. Operators and Expressions - Operators, Operator Precedence, Order of Evaluation, Associativity, Using Expressions. Control Flow- Decision making –if, if …else ,if…elif else. Loops- while, for, break, continue statements.
Module II: Functions – Definition, parameters, local and global variables, default arguments, keyword arguments, return statement, Recursive functions, Lamda functions. Modules-built in modules, creating modules, import statement, Namespaces and scope, dir(), reload() functions. File Handling-opening a file, writing to a file, closing a file, file renaming, deleting a file. Directories of Python-methods mkdir(), chdir(), getcwd(), rmdir().
Module III: Data structures-Introduction, List, storing many different data points under a single name. create, subset and manipulate Lists in all sorts of ways. Tuple, Dictionary, Sequences. Quick introduction to Objects and Classes-creating objects, init() method, Oops principles- encapsulation, data hiding, Inheritance, method overriding, polymorphism. Exception Handling-try….except, try…finally, raising an exception, user defined exception.
Module IV: Numpy –Introduction, NumPy Essentials-The NumPy array, Indexing, functions and operators, type codes, scalars, vectors, slices, N-dimensional array operations and manipulations, Memory mapped files, writing superfast code with Numerical Python, using NumPy to store and do calculations with huge amounts of data. Randomization, Gnuplot, Curve Fitting, Structured Grids, Tools.
Module V: Control flow and Pandas – Pandas Data Frame, Exploring Data with Pandas, data cleaning and processing -Data manipulation with Pandas, reading data into Data Frame structures, querying these structures, merge Data Frames, generate summary tables, group data into logical pieces, and manipulate dates. Scaling of data, issues related with creating metrics for data analysis. Statistical analysis with Pandas, Time series analysis with Pandas.

Assessment Period (2016 – 2021)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF HOME SCIENCE

BASICS OF COOKING

SYLLABUS

Time: Monday and Tuesday: 2pm-3pm.
Total Hours: 40 hours fees – 500/-

Course Outcomes

- Develop basic knowledge in various nutrient present in foods
- Develop practical skills in the preparation of simple recipes related to different food groups

Course Content

THEORY

Unit 1: Introduction to Food, Classification of food, Functions of (2 Hrs) Food

Unit 2: Preliminary methods of Cooking, Different methods Cooking, Objectives (4 Hrs) of Cooking

Unit 3: Baking. Definition, Role of Ingredients in Baking-egg, flour, yeast, sugar (2 hrs)

Unit 4: Food additives: types (2 Hrs)

Unit 5: Important nutrients in each food group (10 Hrs)

PRACTICALS

1. Preparation with cereals (5 hrs)
2. Preparation with pulses (5 hrs)
3. Preparations with milk (5 hrs)
4. Preparations by steaming (2 hrs)
5. Preservative methods (3 hrs)

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Assessment Period (2016 – 2021)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF MATHEMATICS
TYPE SETTING THROUGH LATEX
SYLLABUS

Course Outcomes
- To excel in mathematical documentation
- To develop programming skills

Course Objectives
After completing the Certificate course, students will be able to do thefollowing:
Typeset mathematical formulae using LaTeX
Use the preamble of LaTeX file to define document class and layoutoptions.
Use nested list and enumerate environments within a document.
Use tabular and array environments within LaTeX document.
Use various methods to either create or import graphics intoa LaTeX document.
Use the beamer package to create presentations.
Define and use new commands within LaTeX

Course Content   **Total Hours: 30**

Text: A document Preparation System, LaTex (Second Edition) **Author: Leslie Lamport**
Getting Started (7 hours) Preparing the input file, Sentences and Paragraphs, The Document, Sectioning, Displayed Material, Declarations(Chapter 2. Sections 2.1,2.2)
.Carrying on (13 Hrs) Changing the type style, Symbols from other Languages, Mathematical Formulas: Some common structures , Mathematical symbols , arrays , Delimiters , Multi line formulas , Putting one thing over another , Spacing inmath mode , Changing style in Math Mode , When all else fails Defining commands, Defining environments, Theorems and such as Figuresand Tables, Marginal notes, The tabbing environment, The tabular environment (Chapter 3 sections 3.1 to 3.6)
III Moving Information Around (8 hrs) The table of contents, Cross references, Bibliography and Citation, splitting your input, Making an index or glossary, Keyboard input and screen output,Sending your document. (Chapter 4 Section: 4.1 – 4.7)
Other document classes (2 hrs) Slides and overlays, Notes, Printing only some slides and notes, other text(Chapter 5 Section 5.2)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF PHYSICS

ENERGY AUDITING

SYLLABUS

Course Outcome

- To impart a scientific understanding of the fundamentals related to energy
- To acquire knowledge on energy conservation and energy auditing
- To be aware of basic electrical safety measures
- To practice environment friendly aspects of energy consumption

Course Content   Total Hours: 30

Unit-01: Global and Indian Energy Scenario   6 hours

Global Energy Scenario - Indian Energy Scenario - Role of energy in economic development and social transformation: Energy & GDP, GNP and its dynamics – Energy resources and consumption in various sectors and its changing pattern - Exponential increase in energy consumption and Projected future demands - Depletion of energy sources and impact exponential rise in energy consumption on economies of countries and on international relations - Energy Security - Energy for Sustainable Development - Energy and Environmental policies - Need for use of new and renewable energy sources ts impact on environmental climatic change.

Unit-02: Energy resources   6 hours

Classification of Energy Sources - Principle fuels for energy conversion: Fossil fuels, Nuclear fuels - Conventional & Renewable Energy Sources: Coal, Oil, Natural Gas, Nuclear Power and Hydroelectricity, Solar and Other Renewable etc. - prospecting, extraction and resource assessment and their peculiar characteristics

Unit-03: Energy Auditing   10 hours

Energy Audit Instruments - Basic measurements – Electrical and Thermal Energy measurements, Light, Pressure, Temperature and heat flux, Velocity and Flow rate, Vibrations, etc. Instruments Used in Energy systems: Load and power factor measuring equipments, Wattmeter, flue gas analysis, Temperature and thermal loss measurements, air quality analysis etc. - Mathematical and statistical modeling and analysis - Mechanical & Utility System Measurements - M & V Protocol

Unit-04: Electrical safety of domestic appliances   **8 hours**

Principles of domestic appliances – Air conditioner, Fridge, Induction Cooker, Mixi, Grinder, Electrical Iron, Washing machine, TV, Computer, UPS Lights etc. – Calculations for selection of inverter, UPS, solar appliances, bio gas plant – Electrical safety aspects – Wiring, Earthing, MCB, ELCB etc. –Precautions to prevent electrical accidents - BEE Star rating, ISI stamping

Mode of Evaluation:

The mode of evaluation towards attaining a certificate shall be based on continuous assessment which includes:

Assignments – 3

Individual Seminar – 1

Mini Project - 1 each

Major Project - 1 (by a group of 5)

Industrial visit – 1

References

1. Non – Conventional Energy Resources, G. D. Rai, Khanna Publishers, 2008.
2. Solar Energy Fundamentals and application, H.P. Garg and J. Prakash, Tata McGraw-Hill Publishing company Ltd., 1997.
3. Energy Technology, S. Rao and Dr. B.B. Parulekar, 1997, 2nd edition
4. Power Technology, A. K. Wahil. 1993

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF PSYCHOLOGY
BASIC THEMES IN PSYCHOLOGY
SYLLABUS

Objectives of the Course

The course intends to help the participants to learn the basic concepts in Psychology. It offers an outline on the key areas of behaviour. On completion of the course the participant will have an overview of basic knowledge about important aspects of human behaviour.

Course Outcomes

- Get an overview on the key aspects of human behaviour
- Develop the basic skills to understand the behaviour of human society

Duration of the course: 6 months

Number of teaching hours: 30

Course Fee:500/-

Name of the faculty: Smt Linda Davis C, Former faculty, St. Mary's college, Thrissur

Intake:40 participants

Course content

Module 1 Introduction	**4 hrs**
Psychology: A working definition. Brief history of modern scientific psychology: Branches of Psychology.	
Module 2 Attention and Perception	**6 hrs**
Attention: selective and sustained attention; Factors affecting attention; Phenomena associated with attention-span of attention, division of attention, distraction of attention. Perception, Visual illusions	
Module 3 Learning	**4 hrs**
Concept of learning. Types of Learning; Associative learning (Classical and operant conditioning)	
Module 4 Memory	**4 hrs**
Key processes in memory: Encoding, Storage and Retrieval, sensory memory, short term memory and long-term memory, Forgetting: Reasons of forgetting, Strategies for remembering; Mnemonics.	

Module 5: Consciousness	**2 hrs**
States of Conciousness :Sleep and Dreams	
Module 6: Motivation and Emotion	**3 hrs**
Introduction: Primary and secondary motives. Hierarchy of motives. Concept of Emotion. Physiological correlates of emotion. Lie detectors	
Module 7: Intelligence	**3 hrs**
Definition, nature and meaning of intelligence,.Determinants of intelligence – Role of heredity and environment.. Concept of IQ, Mental retardation and giftedness	
.Module 8: Personality	**4 hrs**
Concept of Personality Psychodynamic approaches. Freud's theory: instinct theory,Levels of consciousness, structure of personality, defense mechanisms, psychosexual stages of development, Trait and Type theories	

References:

Baron, R.A. (2004). Psychology, 5th ed. New Delhi: Pearson education.

Bootzin, R., & Bower, G.H. (1991). *Psychology today- An Introduction*. 7th ed. New York: Mc Graw Hill Inc.

Commer, R. & Gould, E. (2011). Psychology around Us. New Delhi: John Wiley & Sons Inc.

Coon,D.& Mitterer,J.O.(2013)Introduction to Psychology: Gateways to Mind and Behavior, 13th ed.Wadsworth, Cengage Learning

Feldman, R. (2011). Understanding Psychology,10th edition. New Delhi: Tata McGraw Hill.

Morgan, C.T., King, R.A., Weisz, J.R., & Schopler, J. (1993). Introduction to Psychology, 7th ed. New Delhi: Tata McGraw Hill.

Passer M.W.& Smith.R E.,(2007).psychology-the science of mind and behaviour(3rd ed.). New Delhi: Tata McGraw Hill

Weiten, W. (2002). Psychology: Themes and Variations, 5th ed. New York: Brooks/Cole Publishing co.

Additional References:

Gerrig, R. J (2013) *Psychology and Life* (20th Edn) Boston: Pearson

Kuppuswamy, B. (1990). *Elements of ancient Indian Psychology*, 3rd ed. New Delhi: Konark Publishers Pvt. Ltd.

Mishra, B.K. (2008). Psychology: *The study of Human Behavior*. New Delhi: Prentice Hall of India

Mode of evaluation:

A candidate enrolled for the Add on course will be evaluated   in the manner given below:

External Evaluation: An examination will be conducted by the department at the end of the course. It will comprise of a Theory Paper of 50 marks.

50% marks is required for pass and those who secured 50% or more will be issued a certificate by the department.

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF STATISTICS
ADVANCED COURSE IN C++ AND PYTHON
SYLLABUS

Number of Hours: 40

Course Objectives
1. To develop the ability of programming skills in students.
2. To train the student to the basic concepts of the C++ and Python programming languages.

Course Outcome
1. Understand the concepts of C and C++ programming.
2. Explain how an existing C++ program works.
3. To acquire programming skills in core Python.
4. Able to understand the application level of a programming language

Syllabus

Semester-I (20 Hrs)

Module 1: Basics of programming, Introduction to C programming, Variables and Data types, Operators and its application (2Hrs)

Module 2: Functions, Call by value, Call by reference, Scope, Operation using functions (6 Hrs)

Module 3: Pointers, Structure, Operations using Structure, Unions (6 Hrs)

Module 4: File management using c, Types of file and operations in files, Basics of C++, OOP concept, Polymorphism (6 Hrs)

Semester –II (20 Hrs)

Module 1: Introduction to python, Introduction to variables & data types, Operators in python, Programming concept (2 Hrs)

Module 2: Functions in python, Module, Exception Handling (4 Hrs)

Module 3: Introduction to file handling, File Operation modes, File Operations in different modes (2 Hrs)

Module 4: Introduction to MySQL and Apache server, Different databases, Introduction to MySQL queries, MySQL handling using python (4 Hrs)

Module 5: Introduction to Machine Learning, Machine learning tools, Numpy, Pandas, MatPlot, Examples (6 Hrs)

Module 6: Live hands on a python project (2 Hrs)

Reference

1. Programming in ANSI C 6th Edition by E. Balaguruswamy
2. *The C Book*, second edition by Mike Banahan, Declan Brady and Mark Doran, originally published by Addison Wesley in 1991. This version is made freely available.
3. Jones, Derek M.. *The New C Standard: A Cultural and Economic Commentary*. Addison-Wesley. ISBN 0-201-70917-1.
4. The GNU C Library -- a manual for the GNU C library, which defines all of the library functions specified by the ISO C standard, and other functions
5. Guttag, John V. (12 August 2016). Introduction to Computation and Programming Using Python: With Application to Understanding Data.
6. *"Python 3.8.4"*. 13 July 2020. *Retrieved 14 July 2020*.
7. van Rossum, Guido (1993). "An Introduction to Python for UNIX/C Programmers". *Proceedings of the NLUUG Najaarsconferentie (Dutch UNIX Users Group)*. CiteSeerX 10.1.1.38.2023. even though the design of C is far from ideal, its influence on Python is considerable.

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF ZOOLOGY
DAIRY PRODUCTS AND DAIRY DEVELOPMENT
SYLLABUS

Course Outcomes

- Describe various steps in the manufacture of dairy products.
- Identify the role of dairy products making in enhancing women entrepreneurial skill
- Understand the composition and applications of dairy products
- Describe the market value of dairy products

Course Content   **Total Hours: 40**

1. Technology of milk and milk products- Market milk, Paneer, Khoa, Ice cream, sweetened
2. condensed milk, milk powder
3. Microbiology of milk and milk products-Starter culture technology, Fermented milk products
4. Chemistry of milk and milk products – Adulteration, Artificial milk
5. Chemical and Microbiological quality assurance
6. Role of dairy development in rural economy employment opportunities, white revolution

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF ECONOMICS
SUSTAINABLE BANKING AND FINANCIAL INCLUSION
SYLLABUS

Duration: 6 Months (Credit Hours: 30) + Practicals: 7 days

Course Outcome

Students understand banking for profitability and its quality aspects in economic, social and environmental fronts

Course Content

Module I

Growth and Development- Social and Economic Development- Inclusive Growth: features, significance, challenges and opportunities in Indian context

Module II

Financial inclusion- definition, importance, objectives, advantages, opportunities and Challenges - Financial inclusion in India

Module III

Sustainable Development- Sustainable Development Goals - Sustainable Banking: meaning and importance - Micro finance: Meaning and importance - Joint Liability Model for Lending - Triple Bottom Line Approach for Sustainability

- Field Exposure, Case Studies and Assignments

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF ENGLISH
ASAP
SYLLABUS

Course Outcome

Students overcome their inhibitions in using the English language, and thereby improve their employability

Course Content   **Duration : 1 year**

Module 1:   Personal Skills   Knowing oneself-confidence building-defining strengths-thinking creatively personal values-time and stress management-language practice
Module 2:   Social skills   Appropriate and contextual use of language-nonverbal communication interpersonal skills-understanding media-public speaking-language practice
Module 3:   Organizational skills   Planning-team work-coordination
Module 4:   Professional skill   Job oriented skills-professional etiquette-business communication
Module 5:   Preparing and presenting a project   Agreeing on a theme and setting up a timeline-brainstorming-gathering information-writing good paragraphs-compiling and analyzing information revising and editing-ppt

DEPARTMENT OF ENGLISH

FRENCH

SYLLABUS

Course Outcomes

Communicate effectively in French in a variety of speaking situations.

Exposure to more advanced job opportunities and ability to connect to people of different cultures

Course content   **Total Hours: 30**

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DEPARTMENT OF ENGLISH

GERMAN A1

SYLLABUS

Course Outcomes

Communicate effectively in German in a variety of speaking situations. Demonstrate comprehension of spoken German in a variety of listening situations.

Course Content   **Total Hours: 30**

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF ENGLISH
TRINITY GESE CERTIFICATE EXAM
SYLLABUS

Total Hours: 30

TRINITY GESE CERTIFICATE EXAM
(Department of English)

About the Course

The Department of English provides training for the Trinity GESE (Graded Examinations in Spoken English) of Trinity College, London. The Department is a registered teaching and exam centre of the course. Students can register for the thirty-hour course which will be conducted after class hours on weekdays. The classes will be handled by both internal and external resource persons.

GESE exams will be an excellent testing option for pre-acquired Spoken English skills.

All students with basic English language proficiency can join the preparatory course for the GESE exam.

Course format

GESE exams offer a progressive framework for the development of English language skills and an assessment for every learner. GESE is available globally at 12 levels: Grades 1-12 (pre-A1-C2 CEFR levels).

Grades (1-3) Initial stage: Pre-A1-A2.1

Grades (4-6) Elementary stage: A2.2-B1.2

Grades (7-9) Intermediate stage: B2.1-B2.3

Grades (10-12) Advanced stage: C1.1-C2

The Department offers Grade 6. However competent students can opt for a higher Grade Examination.

Objective

To prepare the learners for GESE Grade 6 Exam.

Course Outcome

Proficiency in handling Elementary level English.

Certification

GESE exams are aligned with the European Qualifications Framework (EQF) and also recognised around the world as evidence of English language proficiency.

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Assessment Period (2016 – 2021)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF HINDI

HINDI FOR COMMUNICATION AND COMPUTING

SYLLABUS

Course Outcome (CO)

On completing the course, students are expected to have good command over Hindi language and become good communicators

Students increase their productivity in handling information resources by familiarizing with computing aspects in Hindi

Course Content   **Total Hours: 30**

SUBJECT OF STUDY
• Spoken Hindi
• Translation
• Hindi computing
SPOKEN HINDI
Grammar
• Words-Sentence formation
• Day to Day conversation Topics
TRANSLATION
• Definition and nature of Translation
• The Tools of Translation and their use
• The Process of Translation and the role of Translator
• Different forms of Translation
Translation, Transcreation, Adaptation, Imitation, Summery Translation, Word for word Translation etc.
• A review of development of Translation in Hindi
• Translation Work - English to Hindi, Hindi to English
HINDI COMPUTING
• History and Development of Computer Different parts of Computer
Different software in Hindi

Assessment Period (2016 – 2021)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF MALAYALAM
HEALTHY LIVING
SYLLABUS

Course Outcome

This course is designed to give basic awareness about **HEALTHY LIVING**. Students get opportunity for self-efficiency and confidence for their future life.

Duration of the Course – 50 hours

Titles and hour duration

SYLLABUS IN DETAIL
PAPER-1 Healthy Body
Unit 1   Exercises
Unit 2   Healthy Diet
Unit 3   Health & Beauty
PAPER 2-Yoga
Unit 1 - Theory
Unit 2- Practical
PAPER 3-Naturopathy
Unit 1 - Organic Food
Unit 2 - Organic Farming
PAPER 4-Mental Health
Unit 1 - Counselling

	Titles	Hours
1	Healthy Body -Exercises	10
2	Yoga for Health	10
3	Healthy Food Habits	9
4	Naturopathy	6
5	Health &Beauty	6
6	Mental Health& Counselling	4
7	Organic Living	5

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF SOCIAL WORK
BASIC SKILLS IN COUNSELLING
SYLLABUS
Duration: 1 year

Course Outcomes

1. Understand basic concepts of counselling, its types, principles and process
2. Understand various mental health issues
3. Analyse the significance of different theoretical approaches in counselling.
4. Use skills and strategies in counselling process
5. Understand the various settings in which counselling can be practiced

Learning objectives:

1. To acquire knowledge and skills in practising counselling
2. To gain basic understanding regarding mental health issues
3. To familiarize the learners with different theoretical approaches in counselling.
4. Gain basic understanding regarding counselling techniques and practice of counselling in different settings

Unit I. Counselling: An emerging profession

- Psychology, definition, concepts and significance
- Introduction to counselling, definition, scope and significance
- Goals of Counselling
- Impact of social problems among individuals
- Types of counselling: promotive, preventive, curative, and crisis counselling
- Grief counselling
- Peer counselling and its significance

Unit II. Skills and Atributes of Counsellors

- Personal Qualities and Attributes: Self awareness, Empathy, Genuineness and Warmth
- Basic skills in counselling: Active listening Questioning, Challenging
- Physical attending Skills: non verbal skills like posture facial expressions, voice and eye contact

- Questioning, Challenging
- Physical attending Skills: non verbal skills like posture facial expressions, voice and eye contact

Unit III Counselling

relationship Counselling

relationship: definition,

Principles of counselling

- Acceptance
- Individualisation
- Non judgemental attitude
- Controlled emotional involvement
- Purposeful expression of feelings
- Right for self direction
- Confidentiality

Ethical and legal aspects of

counselling Unit IV

COUNSELLING PROCESS

- Phases/stages in counselling
- Tools used in counselling: listening, observation, interviews and other tools
- Counselling techniques: supportive techniques, emotional ventilation, clarification, accreditation, reassurance, allaying guilt feelings, psychological support etc.

Unit V Mental Health and Mental Health issues

- Mental Health ,
- characteristics of a mentally healthy person
- life skill and mental health

Mental health problems: Adolescent issues, stress, burn out, anxiety, depression, addictions, suicidal ideations, basic information regarding major and minor mental disorders

Unit VI Theoretical approaches in counselling

- Psycho analytic,
- person centered
- Transactional analysis
- Rational Emotive Approach
- Reality Therapy
- Strengths based, Motivational enhancement etc

Unit VII Counselling in different settings

- Family and Marital Counselling
- Educational settings
- Vocational and Industrial settings
- De-addiction centre
- Disaster settings
- Counselling with women

Duration of the course: The course is distributed over one year. The classes are conducted on all Mondays and Tuesdays from 2.00 to 3.00 pm. Since it is a regular contact programme attendance is compulsory.

Evaluation: A candidate enrolled for the certificate course will be evaluated on the basis of a written examination conducted by the department of Social Work at the end of the course. Candidates who have successfully completed the course will be given a Certificate in Basic Counselling Skills.

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VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF SOCIOLOGY

CERTIFICATE COURSE IN LOCAL GOVERNANCE

SYLLABUS

Nature of the Programme   : Certificate Course in Local Governance
Implementing Institution   : Vimala College, Thrissur
Collaborating Institution   : Kerala Institute of Local Administration
Objective of the Programme : To equip young women in Vimala College on Local Governance
Duration   : 30 Hrs (5 Saturdays of 6 hrs duration)
Participants   : 60 selected women in Vimala College who attend UG/PG Courses

Course Objectives

*Students inculcate civic sense and enhance their capacity to understand and participate in democratic processes of the State.

*Through this course the students will learn about the local governance system in India, participatory development and role of women in nation building.

Course Outcomes

The outcomes of the course will be increased capacity of women to understand local administration system, implementation of development projects through local governance, and increased participation of women as representatives and administrators.

For majority of the students in Vimala College, the career option is state and national level government departments. Hence this will be a foundation course for students who aspire for civil service and other government/non-government jobs. Above all, this course will definitely create an interest in young women to become leaders of Panchayati Raj and Nagar Palika Institutions.

Course Content

History of Local Governance in India. 73rd and 74th Amendments, Panchayati Raj System and Local Governance in India, Functions, Planning for Local Governance, Women Leadership and Gender Equity in Local governance, need assessment of a community, Formulation of Project Proposal for local development, monitoring and implementation, Development of vulnerable groups- Policies, programmes.

Methodology: Class room sessions, Assignments, Exposure visits

Evaluation: Grades will be awarded to the participants based on the evaluation of assignments, project proposals and examinations

Attendance: Participants having 80 percent attendance in the courses will be evaluated and graded.

Certificates: Certificates will be awarded to every successful candidate

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Assessment Period (2016 - 2021)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

DEPARTMENT OF SOCIOLOGY
ENTREPRENEURIAL SKILL DEVELOPMENT AND SELF EMPLOYMENT FOR WOMEN
SYLLABUS

Beneficiaries : III & IV sem Students (Open to All)

Duration : 6 months

Hours assigned : 40

Expected Strength : 45

Time: Monday & Tuesday 2 pm to 3pm

Objective

To equip the students with entrepreneurial skills needed for self-employment and self-reliance.

I. Introductory on Entrepreneurship and self-employment - 10 hrs

1. Concepts and overview of entrepreneurship and self-employment

(Meaning, Definition, evolution, characteristics, skills, objectives, types, functions etc)

2. Dimensions of Entrepreneurship-Women entrepreneurship

3. Socio-economic implications-advantages and limitations.

II. Models and trends of Entrepreneurship - 6 hrs

1. Models of entrepreneurship and Emerging trends

2. Entrepreneurial potential and potential entrepreneur

3. Entrepreneurial orientations –creating new identity, project design, financial statement analysis.

III. Opportunities and start-up policy - 6 hrs

Assessment Period (2016 – 2021)

1. Opportunities in the context of Kerala

2. Start-up policy framework and incentives.

Schemes, programmes and policies for self –employment

IV. Experience sharing and training from the experts - 8hrs

Field Visit: Interaction with Entrepreneurs (Firsthand Experience)

Project: Case studies –entrepreneurial role model

Internship: 10 hour

Course Outcomes:

Enable to start a micro-enterprise by students.

Confidence and self esteem boosting among young women.

Attitudinal and perceptional change towards unemployment

Reference:

Dogar, Rana. "The Top 500 Women-Owned Businesses." *Working Woman*, May 1998.

Duff, Carolyn S. *When Women Work Together: Using Our Strengths to Overcome Our Challenges*. Berkeley, CA: Conari Press, 1993.

Godfrey, Joline. *Our Wildest Dreams: Women Entrepreneurs Making Money, Having Fun, Doing Good*. New York: Harper-Business, 1992.

Gracie, Sarah. "In the Company of Women." *Management Today*, June 1998.

Heim, Pat, and Susan Golant. *Hardball for Women: Winning at the Game of Business*. Los Angeles: Lowell House, 1992.

Landrum, Gene N. *Profiles of Female Genius: Thirteen Creative Women Who Changed the World*. Amherst, NY: Prometheus Books, 1994.

Larkin, Geraldine A. *Woman to Woman: Street Smarts for Women Entrepreneurs*. Englewood Cliffs, NJ: Prentice Hall, 1993.

PRINCIPAL IN-CHARGE,
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THRISSUR - 680 309

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VIMALA COLLEGE (AUTONOMOUS), THRISSUR

LIBRARY
INFORMATION RESOURCES & TECHNICAL WRITING
SYLLABUS
Duration: 1 year

Course Outcome

- Students familiarise with primary and secondary information resources and methods of research.
- students understand and know the basic components and stages of technical writing

Course Content

Module 1

Information Science: Definition, characteristics, types of information

Communication: Channel of Communication, Barriers in communication

IPR and Copyright Act

Anti-Plagiarism Software

Module 2: - Information management

Sources of Information: Primary, Secondary and Tertiary sources

Reference sources

Types of information

Documentary sources of information

Indexing and abstracting Journals

Module 3

Research methodology (Practical Information), Technical writing <Project/Article

E-Document, Databases -N list, Shodh Ganga, Open thesis, Content management, DOAJ, etc..

Reference management software – Mendeley (For Project work), Zotero, End Note, etc

Different User IDs Helpful for research

Module 4 (Practical)

Information Technology: Internet tricks & tips

E publishing Platforms: Website, blog, google forms, Google docs etc

Wikipedia editing and Publishing

Assessment Period (2016 – 2021)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

ENVIRONMENT SCIENCE AND DISASTER MANAGEMENT

SYLLABUS

Total Hours: 30

Course Outcomes

*Students understand and address complex environmental issues from a problem-oriented interdisciplinary perspective

*Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving

Course Content

Module 1:

Introduction – Environment in the Indian context: Concept of an ecosystem, Multidisciplinary nature of environmental studies. Components of environment- Atmosphere, hydrosphere, lithosphere and biosphere. Definition, scope and importance. Concept of sustainability and sustainable development.

Module 2:

Natural Resources: Renewable and non-renewable resources: Natural resources and associated problems. a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies. f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. • Role of an individual in conservation of natural resources.

Carbon footprint Water conservation, rain water harvesting, watershed management

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Module 3:

Structure and function of an ecosystem. • Producers, consumers and decomposers. • Energy flow in the ecosystem. • Ecological succession. • Food chains, food webs and ecological pyramids. • Introduction, types, characteristic features, structure and function of the following ecosystem: - a. Forest ecosystem b. Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Module 4:

Biodiversity and its conservation • Introduction – Definition: genetic, species and ecosystem diversity. • Biogeographical classification of India • Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values • Biodiversity at global, National and local levels. • Hot-spots of biodiversity. • Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. • Endangered and endemic species of India • Conservation of biodiversity

Module 5:

Environmental Pollution Definition • Cause, effects and control measures of :- a. Air pollution b. Water pollution c. Soil pollution d. Marine pollution e. Noise pollution f. Thermal pollution g. Nuclear hazards • Solid waste Management : Causes, effects and control measures of urban and industrial wastes. • Role of an individual in prevention of pollution.

Module 6:

Environmental Policies and practices: Climate change, Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents.

Module 7:

Introduction – Hazard and Disaster. Concepts of Hazard, Vulnerability, Risks. Different Types of Disaster: A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc B) Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, Rail & Road), Structural failures (Building and Bridge), War & Terrorism etc. Slow Disasters (famine, draught, epidemics) and Rapid Onset Disasters (Air Crash, tidal waves, Tsunami) Causes, effects and practical examples for all disasters.

Water and Climate Disaster: flood, hail storms, cloudburst, cyclones, heat and snow avalanches, cold waves, droughts, sea erosion, thunder and lightning. Geological Disaster: landslides, earthquakes, Tsunami, mine fires, dam failures and general fires. Biological Disaster: epidemics, pest attacks, cattle epidemic and food poisoning. Nuclear and Industrial Disaster: chemical and industrial disasters, nuclear accidents. Accidental Disaster: urban and forest fires, oil spill, mine flooding incidents, collapse of huge building structures.

Module 8:

Natural disasters- Earthquakes, Tsunami, Floods, Drought, Landslides, Cyclones and Volcanic eruptions. Their case studies. Coastal disasters. Coastal regulation Zone.

Risk and Vulnerability Analysis 1. Risk: Its concept and analysis 2. Risk Reduction 3. Vulnerability: Its concept and analysis 4. Strategic Development for Vulnerability Reduction

Disaster Prevention and Mitigation. Refugee operations during disasters, Human Resettlement and Rehabilitation issues during and after disasters, Inter-sectoral coordination during disasters, Models in Disasters.

Module 9:

Disaster Preparedness and Response Concept and Nature Disaster Preparedness Plan Prediction, Early Warnings and Safety Measures of Disaster. Role of Information, Education, Communication, and Training,

Disaster Management: Role of Government, International and NGO Bodies. Role of IT in Disaster Preparedness Role of Engineers on Disaster Management. Response Disaster Response : Introduction Disaster Response Plan Communication, Participation, and Activation of Emergency Preparedness Plan Search, Rescue, Evacuation and Logistic Management Role of Government, International and NGO Bodies Psychological Response and Management (Trauma, Stress, Rumor and Panic) Relief and Recovery Medical Health Response to Different Disasters.

Module 10:

Rehabilitation, Reconstruction and Recovery Reconstruction and Rehabilitation as a Means of Development. Damage Assessment Post Disaster effects and Remedial Measures. Creation of Long-term Job Opportunities and Livelihood Options, Disaster Resistant House Construction Sanitation and Hygiene Education and Awareness, Dealing with Victims' Psychology, Long-term Counter Disaster Planning Role of Educational Institute.

Module 11:

The vulnerability atlas of India.   Disaster Prevention and Mitigation. Agencies involved in Disaster Management. Warning and Prediction

Essential Reading

Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad – 380 013, India, Email: mapin@icenet.net (R) c)

Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p

Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.

Gadgil, M., & Guha, R.1993. This Fissured Land: An Ecological History of India. Univ. of California Press.

Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.

McNeill, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.

Singh, J. S., Singh, S. P. and Gupta, S. R. 2014. Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi.

Sodhi, N. S., Gibson, L. & Raven, P. H. (eds). 2013. Conservation Biology: Voices from the Tropics. John Wiley & Sons.

Warren, C. E. 1971. Biology and Water Pollution Control. WB Saunders.

Pandey, M., 2014. Disaster Management, Wiley India Pvt. Ltd., 240p.

Tushar Bhattacharya, Disaster Science and Management, McGraw Hill Education (India) Pvt. Ltd

Jagbir Singh, Disaster, Management: Future Challenges and Opportunities, K W Publishers Pvt. Ltd.

J.P. Singhal, Disaster Management, Laxmi Publications

C. K. Rajan, Navale Pandharinath, Earth and Atmospheric Disaster Management: Nature and Manmade, B S Publication

Shailesh Shukla, Shamna Hussain, Biodiversity, Environment and Disaster Management, Unique Publications

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

CENTRE FOR WOMEN STUDIES

CERTIFICATE COURSE IN GENDER SENSITIZATION

SYLLABUS

Course Outcomes
- To sensitize the students regarding the issues of gender inequalities prevailing in society.
- To introduce gender sensitization and its challenges

Total Hours: 30

Course Content

1. Introduction
2. Leadership and Communication Skills
3. Gender
   - Gender, Patriarchy and Institutions, Violence
4. Body, Reproductive Health and healthy practices in living
5. Self-defense moves
6. Three Phases
7. Mobility
8. Flexibility
9. Defense
10. Entrepreneurial Skills

Assessment Period (2016 – 2021)