

DEPARTMENT OF BOTANY
INDIGENOUS KNOWLEDGE OF HERBAL MEDICINES IN KERALA
SYLLABUS

Course Outcomes

After the completion of this course, students will be enabled:

- To acquire more knowledge about the indigenous herbal medicine
- To gain more insights about the characters and healing properties of 30 medicinal plants commonly used in traditional healthcare systems
- To utilize these medicinal plants and prepare herbal medicines for natural remedies
- To popularize the indigenous knowledge in the community and conserve the plants
- To explore more medicinal properties by taking up research and higher studies

Course content

Herbal medicines are the drugs obtained from plants. Over 80% of people living in developing countries depend on herbal medicines as their immediate choice in the treatment of diseases showing its relevance and importance in Primary Health Care (Moody, 2007). Herbal medicines have been recognized by the WHO as the most popular form of traditional medicine, and thus, highly lucrative in the international medicine market. Traditional healers and grandparents are the major custodians of this wealth of knowledge which seldom get transferred to the new generation. Hence, there is a need to preserve the indigenous knowledge of herbal medicines which can be done by inclusion of this knowledge about herbal medicine in the college curriculum. This inclusion will impart the indigenous knowledge among the students and act as a great way of preserving the indigenous knowledge by carrying on the practice of traditional medicine to their old age. Moreover, this will increase awareness in the use of simple, harmless but useful herbs for our common ailments. It will also encourage many students to explore more about herbal medicine or related courses thereby promoting and strengthening the healthcare system in our country.

Course Content**Total Hours: 30**

Sl No	Topic	Hr
	Module 1	
1.	Introduction to Herbal Medicine: Ayurveda - Ancient Science of Health- Principles of Ayurveda, Dravyaguna Shastra- Herbal Medicine and Ayurveda	1hr
2.	Indigenous medicinal Plants of Kerala- Significance of Herbal Medicine - Our Potential and Challenges -Challenges in Herbal Medicine Research	1hr
	Module 2	
3.	Differences of Botanicals and Pharmaceuticals- Botanicals and Ayurveda	1hr
4.	Mode of Action of Botanicals- Understanding of action of Ayurveda herbs on body	1hr
	Module 3	
5.	Detailed study of some important medicinal plants (34 plants) which are popularly used as indigenous herbal medicines in Kerala. Dashapushpam Kanikkonna -Thumba - Kadaladi- Erukku- Karinochi Kattar Vazha- Veppu-Manjal- (Kasthuri Manjal -Mara Manjal) Shankhu Pushpam- Vayambu- Chembaratti -Tottavadi -Adalodakam Nalikeram- Muttanga- Patha thali- Naruneendi - Vayalchulli Shatavari- Kurunthotti- Avanakku- Brahmi/ Kudangal- Puliyaral	6 hrs
	Module: 4	
6.	Procedure for preparing herbal formulations	½ hr
7.	Understanding of Basic Ayurveda herbal formulations	½ hr
8.	Decoctions and Powders	1 hr
9.	Lehyam	1 hr
10.	Oils and Ghee preparations	1 hr
11.	Arishtam	1 hr
	<u>Practical</u> (15 Hrs) Submission - Compilation of Medicinal plants – 15 Hrs	
	<u>Mode of Internal Assessment</u> Online Quiz and Examinations after each Module – (1 hr each/ Module – Total 4 hrs)	

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 Outcomes

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

Course Content

Total Hours: 36

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 2010/2013/2016 – 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, Packaging 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