Certificate in

Web Design & Development

(CWDD 2011)

General Information Booklet

Organized by
Staff Development Centre

Facilitated by
ICT Centre- Makandura
Wayamba University of Sri Lanka

Certificate in

Web Design & Development

(CWDD 2011)

This course is funded by:

Certificate in Web Design & Development

The ICT Centre at Makandura was established to impart the knowledge on IT necessary for undergraduates to meet the challenges in rapidly developing IT and communication system in their relevant field of study. Further ICT Centre extended its services to University Academics & Non-academics by offering several IT related Workshops & Certificate Courses.

The course will be conducted in accordance with the following:

1. TITLE

   Certificate in Web Design & Development (CWDD)

2. RATIONALE

   Computer technology is becoming more and more pervasive in our lives as computers become cheaper and more powerful. We all are now living in a Digital era. Internet and the World Wide Web are the key technologies that play the major role in today's digital world. Without a proper knowledge of these technologies it is becoming difficult for anybody to survive in the today's society. Being a university academic it would be greatly advantageous, to coup with these latest technologies for effective learning & fast & convenient communications.

   The ICT Centre in collaboration with the Staff Development Centre of Wayamba University of Sri Lanka has decided to offer this certificate course for the benefit of Academic staff of the Wayamba University of Sri Lanka.

3. AIM

   This course has been designed to give the participants a thorough knowledge and understanding about web Design and Development technologies.

4. OBJECTIVES

- Identify HTML tags and develop web pages.
- Be aware of Web Engineering Technologies.
- Be aware of how to author dynamic web contents using PHP, MySQL, Apache and Bundled packages such as XAMP for web Design / Development.
- Be aware of how to use Expression Web / MS FrontPage for quick Web Authoring.
- Be aware of how to manipulate Graphics, Animations and Videos for Web using appropriate Technologies.
- Identify some characteristics of future Web Applications.
- Be aware of how to host & maintain a web site.

5. LEARNING OUTCOMES

The participants, after completing this course will be able to

- acquire the fundamental knowledge & skills in Web Engineering Technologies
- prepared for faster, more effective internet communication
- familiarize with dynamic web contents developments using PHP, Mysql, Apache and quick Web Authoring with Expression Web / MS FrontPage
- manipulate Graphics, Animations and Videos for Web
- familiarize with web hosting, maintenance and security issues
- identify some characteristics/trends of future of Web Applications
- to design your course for: "Web-based Teaching"

6. DURATION

The duration of the course will be approximately 15 weeks.

7. ENTRY QUALIFICATION

Basic knowledge and understanding about the fundamentals of ICT is required.

a. TO WHOM
   Both Permanent and Temporary Academic Staff Members of the WUSL

8. COST

   Fees per participant

   - Registration fee   Rs.   1000.00*
   - Course fee   *Free of charge*

   (Though it's offering free of charge for the University Academics, the Real value of the course would be Rs. 18000.00)

   *Please note that the registration fee will be *reimbursed* upon *completion of the course*

9. CURRICULUM
   I.   Introduction to the Internet & World Wide Web.
   II.   Introduction to Web Engineering Technologies.
   III.   Hyper Text Markup Language (HTML).
   IV.   Expression Web / MS FrontPage for quick Web Authoring.
   V.   Dynamic web page development using CSS and Java Scripts.
   VI.   Manipulation of Graphics, Animations and Videos for Web.
   VII.   Unicode Fonts for Web.
   VIII. Use of PHP, MySQL & Apache.
   IX.   Web Accessibility Techniques.
   X.   Web Hosting & Maintenance.
   XI.   Future of Web Applications.

10. TRAINING METHODOLOGY

The course will be conducted through lectures, discussions and practical on individual and group basis and lab exercises to evaluate the knowledge gained.

11. ATTENDANCE

80% attendance is compulsory to sit for the final examination. If the candidate couldn't fulfill this requirement, he/she has to set for the repeat examination.

12. EVALUATION CRITERIA AND AWARDING OF THE CERTIFICATE

12.1. Evaluation criteria

Consists of following three components

(a) Continuous Assessments (20% Marks)
(b) Final Examination (30% Marks)
(c) Web Design / Development Project (50% Marks)

For a participant to be eligible for award of the certificate, should have submitted / done all the above (a), (b) and (c) components of the evaluation criteria.

And

Should have obtained 50% overall average marks while preserving 40% marks from each individual components.

Note:

Any participant, who is unable to be eligible for award of the certificate at the first attempt, can complete within two more consecutive attempts.

13. RESULTS

Final and repeat examination results will be graded as follows;

Overall Average Marks (while preserving 40% marks from each individual components)	Grading
80 and Above	Distinction Pass
70 - 79	Merit Pass
60 - 69	Credit Pass
50 - 59	Ordinary Pass
49 and Below	Fail

Note:

A candidate shall be eligible for the award of a Merit or Distinction Pass, only if he / she has taken the examination at the very first attempt

14. CERTIFICATE

Participants who successfully complete the course will be awarded a certificate with the grading obtained at the final examination.

Awarding of the Certificate

"**Certificate in Web Design & Development"** will be awarded for those who secure a minimum of 50% average.

14.1. A candidate can repeat the exam twice only. The highest grade obtainable in such an attempt will be grade "Ordinary pass". The candidate should complete examination within two consecutive attempts.

14.2. Except the certificate, no other letters will be issued.

15. FACILITIES

15.1. LABORATORIES

The ICT Centre consists of 3 sections – A separate section for the staff members; laboratory to conduct the practical for students and a separate laboratory facilities for students to access the web.

15.2. NETWORK & INTERNET

Wayamba University of Sri Lanka is equipped with 1Gbps backbone network and 2Mbps Metro Ethernet internet connection.

15.3. SERVERS & EQUIPMENTS

The facilities of the ICT Centre (at Makandura) include File servers, Proxy server, Web server, Email server, DNS server, E-Learning server, Information System server, Over 100 workstations with multimedia facilities, Laptop Computers, Multimedia Projectors, Power back-up Systems and Scanners and Digital imaging system.

15.4. PRINTING

Printing facility is provided to staff and participants by the Centre only for academic purposes: Dot Matrix Printouts for free-of-charge and Laser Printouts for the rates approved by the Financial Committee.

16.   TEACHING PANEL

Name	Qualifications	Post
Dr. WJSK Weerakkody	B.Sc., PhD (Kelaniya)	Director / Snr. Lecturer
Mr. HACK Jayathilake	B.Sc. (Agric.) (Peradeniya), PG.Dip IT, M.Sc (Information Technology) (SLIIT)	Lecturer
Mr. HWH Premachandra	BIT (Colombo), DCSD (NIBM), Reading for M.Sc (Moratuwa)	Instructor
Mr. KHMI Karunaratne	B.Sc. (Agric.) (Peradeniya) Reading for M.Sc (Moratuwa)	Instructor
Mr. WD Samanwickrama	B.Sc. (Kelaniya), Reading for M.Sc (Colombo)	Systems Engineer

17. RULES AND REGULATIONS

- Users entering for practical classes are required to remove their shoes at the entrance of the Computer laboratory.

- Please observe silence in the laboratory

- Users are required to strictly observe the course schedule and to be punctual for all classes.

- Users are required observe the rules and regulations of the ICT Centre & Wayamba University of Sri Lanka.

18. GENERAL CONDUCT

- The facilities at the laboratory are strictly for the educational purposes only.

- User's registration number is the USERNAME for logging to the machines. (eg:- *wd-lastname*)

- Users are required to set password for their account.

- Users are required save all the work in his/her home folder (Z:).

- The Lab should be kept clean and tidy at all times.

- Food and/or beverages, including water, are NOT permitted in the computer labs.

- Switch off your mobile phone before entering the laboratory and lecture hall.

- All users are required to work quiet on their own assignments. Collaborative work is permitted only for prior arrangement with the Instructor only among the specific arranged hours.

19. CONTACT DETAILS

DIRECTOR / STAFF DEVELOPMENT CENTRE

Prof. Udith K. Jayasinghe-Mudalige
B.Sc. (Agric.), M.Sc. (Agric. Econ) [Peradeniya]
Ph.D. (Guelph, Canada),

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Fax:	031 229 9246
Mobile:	077 362 8911 (Dirctor/SDC)
Email:	udith@hotmail.com (Dirctor/SDC)

DIRECTOR / ICT CENTRE - MAKANDURA

Dr. WJSK Weerakkody
B.Sc. Ph.D. [Kelaniya]

Mail:	ICT Centre
	Wayamba University of Sri Lanka,
	Makandura, Gonawila (NWP), Sri Lanka
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Mobile:	071 440 1041 (Dirctor/ICTC)
Email:	helpdesk@mkd.wyb.ac.lk
	weera@mkd.wyb.ac.lk (Dirctor/ICTC)

20. YOUR CERTIFICATE

Wayamba University of Sri Lanka

This is to certify that

....

has successfully completed the

"Certificate in Web Design & Development"

held from .... to ....

with .... Pass
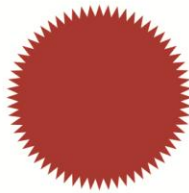
conducted by the

Staff Development Centre

in collaboration with

Information Communication Technology Centre (*Makandura*)

....
Director / SDC

....
Director / ICTC - (Makandura)

....
Registrar

Date of award: ....