School of Science and Technology Diploma in Computer Science and Application (DCSA)

2nd Semester

List of the Practical

Lab work: 10 Record book: 5 Viva-voce: 5 Total marks: 20

Course: Digital Systems and Computer Organizations (DCSA 2301)

Practical 1 : Install and use any of the following digital logic simulators: KTechLab, gLogic and Logisim or any other digital logic simulators.

Practical 2 : Design and simulate the following digital circuits using any digital circuit simulator:

- a) AND, OR, NOT, XOR, NOR and NAND gate
- b) Demorgan's Theorems
- c) Adder
- d) Subtractor
- e) Multiplexor
- f) Encoder
- g) Decoder
- h) JK Flip-Flop
- i) SR Flip Flop

School of Science and Technology

Diploma in Computer Science and Application (DCSA) 2nd Semester List of the Practical

Lab work: 10 Record book: 5 Viva-voce: 5 Total marks: 20

Course: Operating System (DCSA 2302)

Lab 1:

- a) Verify that Windows client is present and or not. If not, how to install it.
- b) Find the Internet Protocol (IP) and Media Access Control (MAC) address of a Windows XP computer.
- c) How to Use Windows 7 Home Group?
 - i. Creating a Windows 7 Home Group
 - ii. Joining and Leaving Home Groups
 - iii. Changing the Home Group Password
- d) Connecting to a Wireless Home Network
- e) TCP/IP Configuration for Windows
- f) Sharing files and printer
- g) Setup a LAN in windows

Lab 2:

- a) Creating user in windows
- b) User Management in Windows XP
- c) Install and use anti-virus
- d) Map a Drive using Windows OS
- e) Recovering lost data in Windows

Lab 3:

- a) Editors, Shell and Shell Scripts
- b) Useful Command in Linux

School of Science and Technology

Diploma in Computer Science and Application (DCSA)

2nd Semester
List of the Practical

Record book: 5 Viva-voce: 5 Total marks: 20

Lab work: 10

Course: Database Management System (DCSA 2304)

Lab 1: Create the following tables for a COMPANY database

EMPLO	YEE									
Fname	Minit	Lname	Ssn	Bdat	te A	ddress	Sex	Salary	Super_ssn	Dno
DEPAR	TMENT									
Dname	Dnumb	<u>er</u> Mgr_	ssn	Mgr_sta	rt_date					
DEPT_L	OCATIO	NS								
Dnumb	er Dloca	tion								
PROJEC	T									
Pname	Pnumbe	<u>r</u> Ploca	tion	Dnum						
WORKS	_ON									
<u>Essn</u>	<u>Pno</u> I	Hours								
DEPEN	DENT						_			
Essn [<u>Dependen</u>	t_name	Sex	Bdate	Relatio	onship				
L			<u> </u>	1						

Lab 2: Illustrate the use of constraints

- i. NOT NULL
- ii. PRIMARY KEY
- iii. UNIQUE
- iv. CHECK
- v. DEFAULT
- vi. REFERENCES
- Lab 3: DATA MANIPULATION: INSERTING VALUES INTO A TABLE
- Lab 4: Illustrate the use of SELECT statement
- Lab 5: Conditional retrieval WHERE clause
- Lab 6: Query sorted ORDER BY clause
- Lab 7: Grouping the result of query GROUP BY clause and HAVING clause
- Lab 8: Aggregate functions in SQL (Count, Sum, Max, Min, Avg)
- Lab 9: SQL operators

School of Science and Technology

Diploma in Computer Science and Application (DCSA) 2nd Semester

List of the Practical

Course: Internet Technology and Web Designing (DCSA 2303)

Lab work: 10 Record book: 5 Viva-voce: 5 Total marks: 20

Lab 1:

Introduction to HTML: Web site, Web Page, Types of Web Pages, Browsers and their types, Client –Server Model, Web –Server, Working of different types of Web Pages, General structure of a Web Page, Scripting languages, URL, Popular Search Engines, WWW

Lab 2: Structure of HTML web page:

Lab 3: Basic HTML physical character tags:

Lab 4: Logical character tags:

Lab 5: Other HTML tags:

Lab 6: List tags: all tags pertaining to Lists

Lab 7: Table tags.

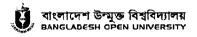
Lab 8: Hyper link tag (both Internal & External).

Lab 9: Working with Frame and Form tags.

Lab 10: Image tags & embedding a multimedia on to a web page(video, audio, zip)

Lab 11: Working with CSS (Cascading Style Sheet).

Lab 12: Develop a web page using the above tags.



Diploma in Computer Science and Application (DCSA) Program Academic Calender

2nd Semester (2018 Batch) (July - December 2018)

Date of Commencement: 02 November, 2018

Event	Date
Second semester class begins	Friday, 02 November 2018
Last date for submission TMA-1 (for all courses)	Friday, 21 December 2018
Last date for submission TMA-2 (for all courses)	Friday, 01 February 2019
Second semester class ends	Friday, 01 February 2019
Second semester examination begins (theory) (Tentative)	Friday, 22 February 2019
Third semester registration begins (Tentative)	Monday, 25 February 2019
Second semester examination ends (theory) (Tentative)	Friday, 15 March 2019
Practical examination begins (Tentative)	Friday, 22 March 2019
Practical examination ends (Tentative)	Saturday, 23 March 2019
Third semester class begins (Tentative)	Friday, 05 April 2019



Diploma in Computer Science and Application (DCSA) Program

Class Routine

2nd Semester (2018 Batch) (July - December 2018) Date of Commencement: 02 November, 2018

Class Hour	Theoretical	etical	Practical	12.10	Theoretical	etical	Practical
Date	09:00-10:00	10:05-11:05	11:10 – 12:10	12:10 - 14:00	14:00-15:00	15:00-16:00	16:00-17:00
02-11-2018	DCSA 2301	DCSA 2303	DCSA 2301]	DCSA 2302	DCSA 2304	DCSA 2302
16-11-2018	DCSA 2301	DCSA 2303	DCSA 2301	Pra	DCSA 2302	DCSA 2304	DCSA 2302
30-11-2018	DCSA 2301	DCSA 2303	DCSA 2301	yeı	DCSA 2302	DCSA 2304	DCSA 2302
07-12-2018	DCSA 2301	DCSA 2303	DCSA 2303	r ar	DCSA 2302	DCSA 2304	DCSA 2304
21-12-2018	DCSA 2301	DCSA 2303	DCSA 2303	nd l	DCSA 2302	DCSA 2304	DCSA 2304
28-12-2018	DCSA 2301	DCSA 2303	DCSA 2303	Lur	DCSA 2302	DCSA 2304	DCSA 2304
04-01-2019	DCSA 2301	DCSA 2303	DCSA 2303	nch	DCSA 2302	DCSA 2304	DCSA 2304
18-01-2019	DCSA 2301	DCSA 2303	DCSA 2303	Br	DCSA 2302	DCSA 2304	DCSA 2304
25-01-2019	DCSA 2301	DCSA 2303	DCSA 2303	eak	DCSA 2302	DCSA 2304	DCSA 2304
01-02-2019	DCSA 2301	DCSA 2303	DCSA 2303	K	DCSA 2302	DCSA 2304	DCSA 2304

^{*} For any changes in this schedule, concerned coordinator is requested to inform the students as well as the Dean, School of Science and Technology, BOU in advance.

** It is advised to follow the list of Practical Works for conducting lab classes

	(F:L) (5,5,1,1)	Number	Number of Classes
ourse Code	Course Ittle	Theoretical	Practical
DCSA 2301	Digital System and Computer Organization	01	3
DCSA 2302	Operating Systems	01	3
DCSA 2303	Internet Technology and Web Designing	01	7
DCSA 2304	Database Management System	10	7

