IT230 Web Technologies

We will cover these chapters

Before Midterm	1- Chapter 1: HTTP 2- Chapter 2: HTML 3- Chapter 3: CSS 4- Chapter 4: JavaScript 5- Chapter 5: DOM
After Midterm	1- Chapter 6: Servlets 2- Chapter 7: XML 3- Chapter 8: JSP 4- Chapter 17, 18: Database & JSP 5- Chapter 2, 3: PHP 5 introduction 5- Chapter 4, 5: PHP 5 OOP 5- Chapter 6, 7: PHP database & errors

Questions Type:

These are just examples of the major questions types:

MCQs, True/False, Short Answer, What is the output of the program or the function, write a code.

Question	Type	Count	Marks
1	MCQs	10	**10**
2	T/F	10	**10**
3	Essay	4	**20**
4	Find the output	3	**20**
5	Short Code	3	**15**
6	Coding	2	**25**
Total			100 marks

o   No essay questions from the part before the midterm.

o   Write a code question will be on (CSS, JSP, PHP, XML) only

o   What is the output questions will be on (HTML, JavaScript & DOM, JSP, PHP)

Topics:

- **Chapter 1:**
  - HTTP request / response (URI, MIME)
- **Chapter 2:**
  - HTML tags: div, p, span, table, ol, ul, img, a, form, input,
- **Chapter 3:**
  - **Different methods of embedding CSS   (code)**
  - Selector Strings (id, class, …).
- **Chapter 4:**
  - Window.alert, .prompt
  - Functions, var, if, loop, operators.
- **Chapter 5:**
  - Events: onclick, onmouseover, onmouseout, onfoucs, onblur
  - Event Propagation: bubble

Important:

- **Chapter 6: (theoretical)**
  - Server side programming
  - Sessions
  - Cookies (Privacy Issue)
- **Chapter 7:**
  - XML
  - XML syntax
  - **XML Document (how to write XML document)**
  - Java based DOM (concept)

- **Chapter 8:**
  - Overview of JSP page components
  - JSP & servlet (the concept)
  - JSP Expression Language
  - **MVC (Concept)   Essay**

- **Chapter 17,18:**
  - JDBC
  - **Seven Steps for Database Access (Concept & Code)   Essay**
  - Prepared Statements (Concept)
  - Callable Statements   (Concept)
  - **Database Transactions (Concept)**

- **Chapter 2, 3: (code)**
  - HTML embedding
  - Comments
  - Variables
  - Data types
  - Operators
  - Decision, loops
  - Functions
  - Define a class and methods inside it
  - Final class   (concept)

- **Chapter 4, 5:**
  - **Design patterns (Strategy pattern, singleton pattern, factory pattern, observer pattern) (concept)   Essay**
  - Read user input (code)
  - **TECHNIQUES TO MAKE SCRIPTS "SAFE" (concept)**
  - Cookies & sessions (code)

- **Chapter 6, 7:**
  - Mysql
  - **Buffered Versus Unbuffered Queries (concept)   Essay**
  - Connect to mysql (code)
  - Error versus Warning (concept)   Essay