Web Development

AAPP009-4-2 and Version #VD1

Introduction and Overview

ASIA PACIFIC UNIVERSITY
OF TECHNOLOGY & INNOVATION
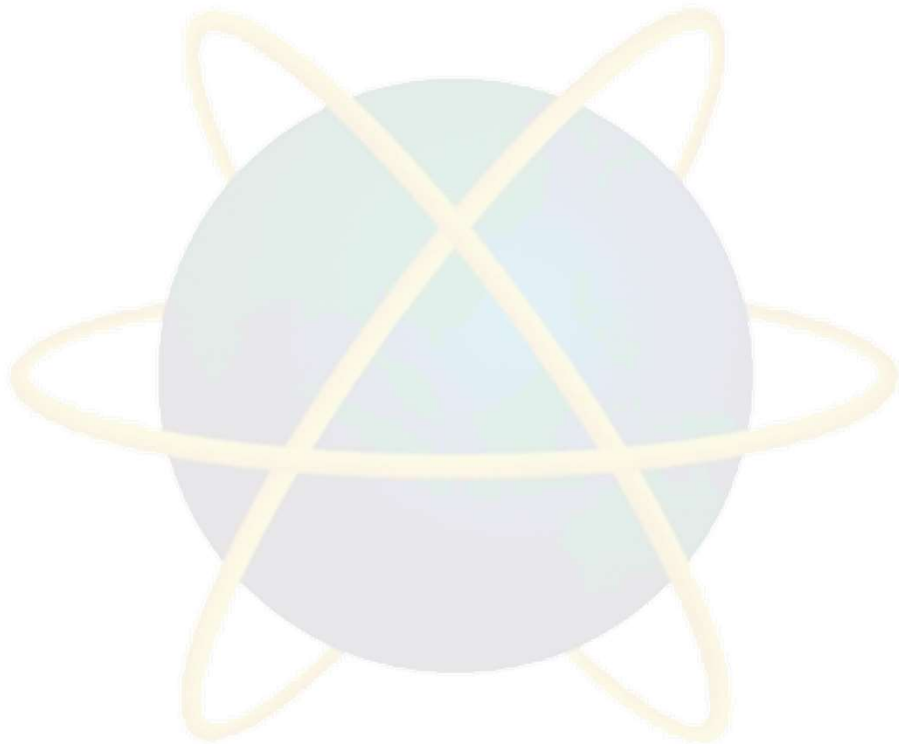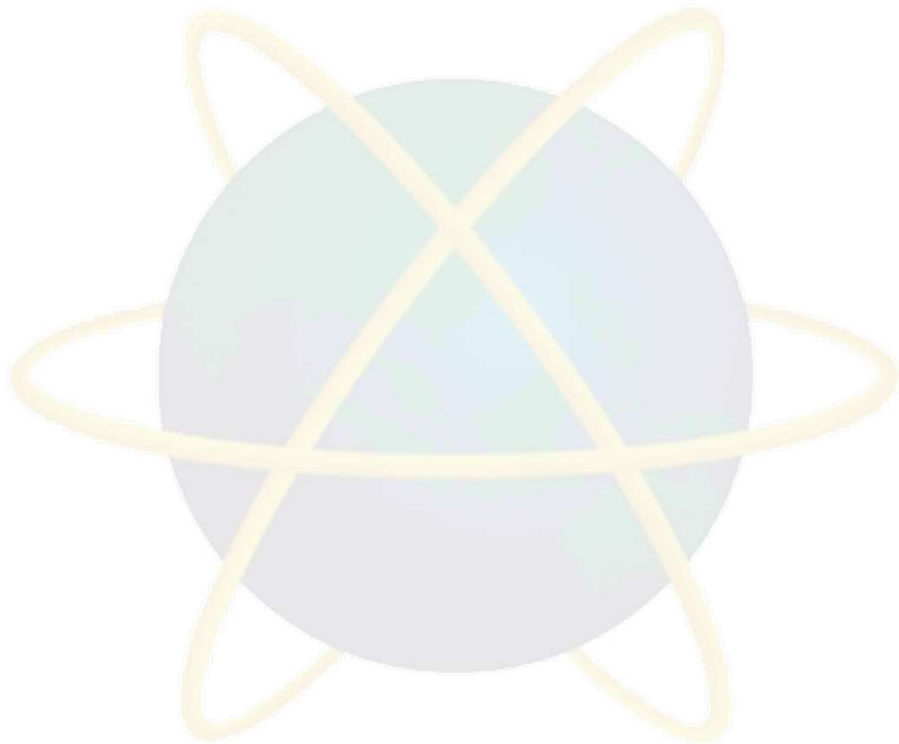
Lecturer information

Lecturer Name: Daniel Mago Vistro

Email: daniel.mago@staffemail.apu.edu.my

Pre-requisites for this module

- None

Aims of this module

The module provides students with an overview of the Web environment, principles of Web design and offers opportunities for students to develop their client side scripting, server side scripting, and visual design skills along the way.

In addition, through practical work, students will develop knowledge and enhance their skills for designing and developing dynamic web pages using these technologies.

Course Learning outcomes

- **At the end of this module, YOU should be able to:**

1. Explain the principles and technologies of the Internet and World Wide Web. (C2, PLO1)
2. Construct an effective and interactive web application by using the scripting languages. (C3, PLO2)
3. Demonstrate an understanding of the process of using web connections to gather and process information in a secure and compatible way. (A3, PLO5)

Mapping of CLOs with MOEs Domain

Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment : Please select the learning outcome Domain(LOD) for each PLO in the cells above it. E.g PLO1- Knowledge and Understanding, PLO2- Cognitive Skills, PLO3-Practical Skills

Course Learning Outcomes (CLO)	Programme Learning Outcomes (PLO)												Teaching Methods	Assessment
	Knowledge and Understanding, Cognitive Skills, Practical	Cognitive Skills,	Practical Skills,	Interpersonal Skill,	Communication skill,	Digital Skills,	Numeracy Skills,	Leadership, autonomy and responsibility,	Personal Skills,	Entrepreneurial Skills,	Ethics and professionalism			
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12		
CLO 1	✓												Lecture	Final Exam
CLO 2		✓											Tutorial	Group Project (Essay)
CLO 3					✓								Tutorial	Presentation

PLO1 – Knowledge and Understanding
PLO2 – Cognitive Skills
PLO5 – Communication Skills

MQF and MOE Domains

| MOE LO Domains		MQF LO Domains
Knowledge		Knowledge
Practical Skills		Practical Skills
Critical Thinking and Scientific Skills		Social Skills and Responsibilities
Communication Skills		Values, Attitudes and Professionalism
Social Skills, Teamwork and Responsibility		Communication, leadership and Team Skills
Values, Ethics, Moral and Professionalism		Problem Solving and Scientific Skills
Information Management and lifelong Learning Skills		Information Management and Lifelong Learning Skills
Managerial and Entrepreneurial Skills		Managerial and Entrepreneurial Skills
Leadership Skills		

Teaching Strategies

- Lecture
- Tutorial
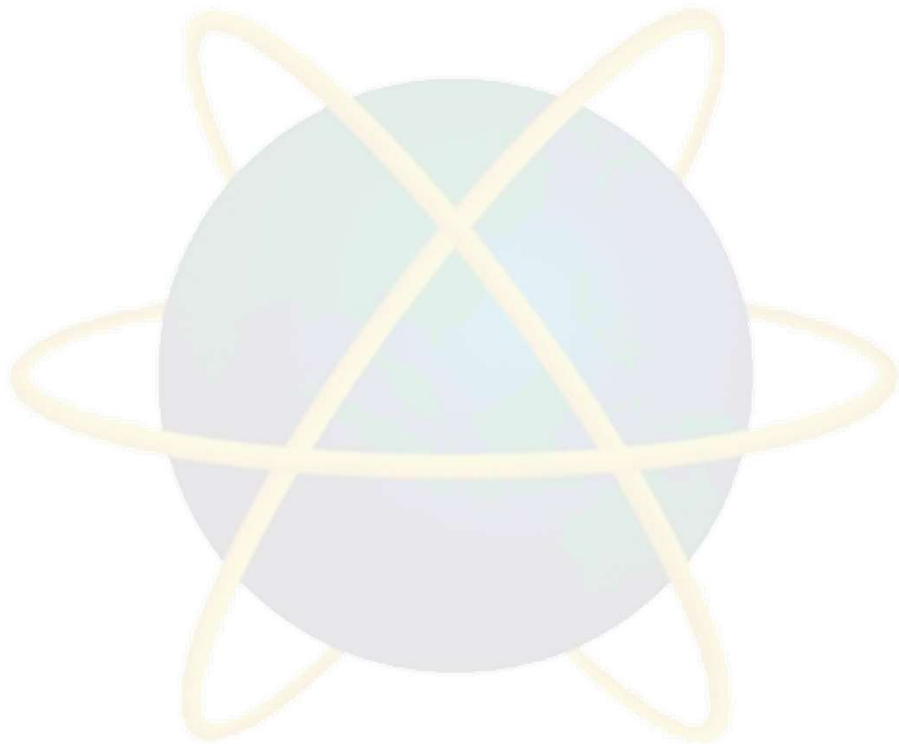
Student Learning Time (SLT)

- **Module Credit Value: 4**
- **Total Learning Hours:**
  - ➢ Lecture: 28 hours per semester
  - ➢ Tutorial : 28 hours per semester
  - ➢ Independent Learning Time: 84 hours per semester
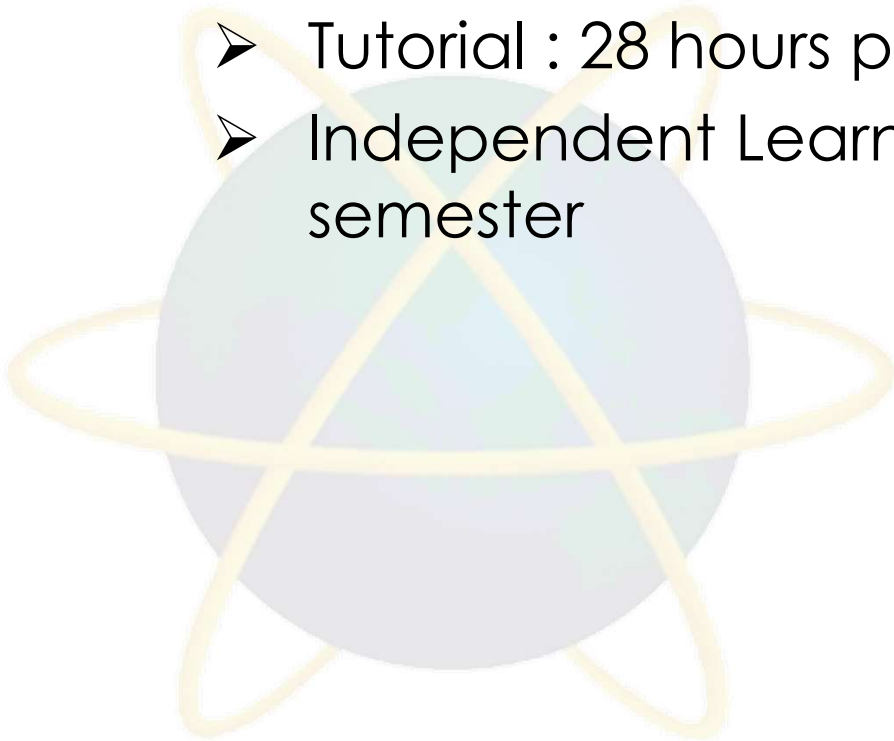
Methods of Delivery

Hence,

- We are now moving from the traditional topic based teaching to outcome-based education
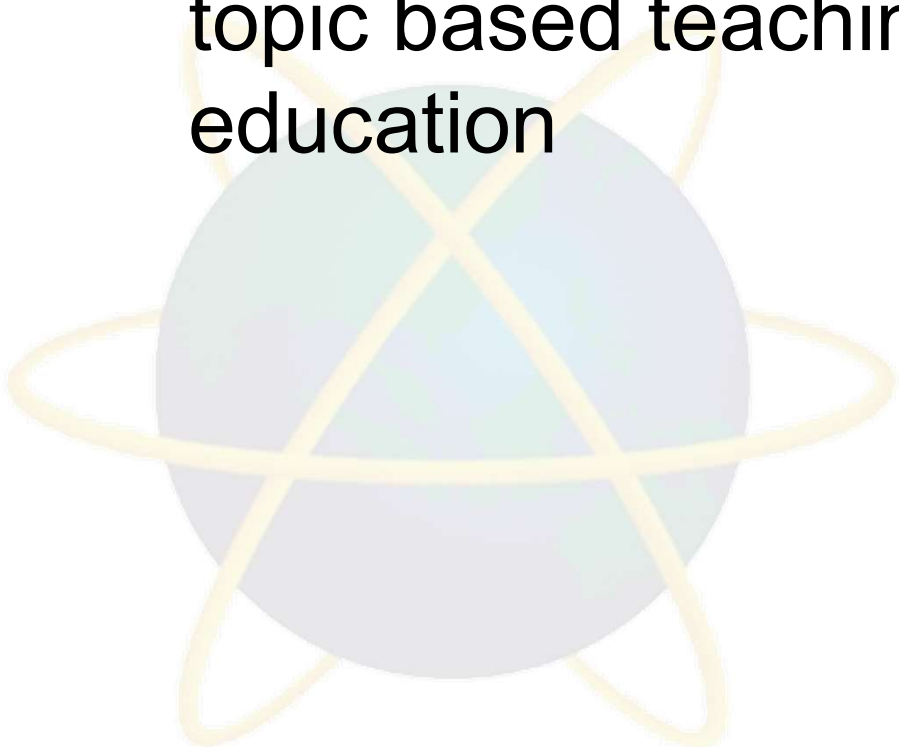
Outcomes Based Education (OBE)

- OBE is education based on producing particular educational outcomes that:

  ➤ Focus on what students can actually do after they are taught

  ➤ Expect all learners / students to successfully achieve particular (sometimes minimum) level of knowledge and abilities.

So…What is OBE?

It's

<u>NOT</u>

What we want to teach,

It's

<u>What You should learn</u>

Course Content Outline

CLO1: Final Exam (40%)

CLO2 & CLO3 : Group Project (60%)
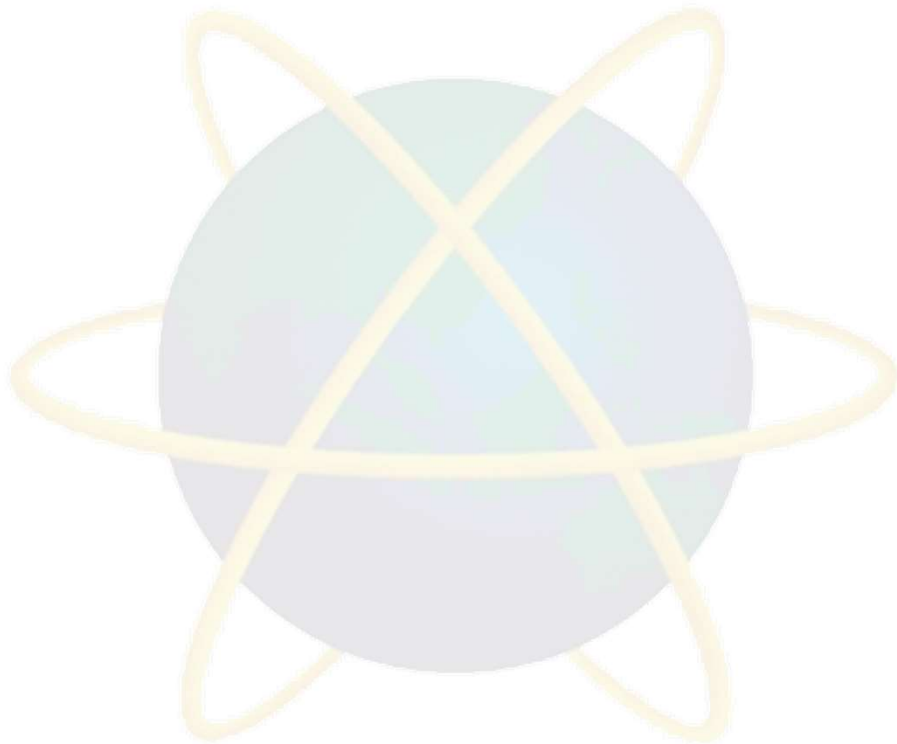
Lecture and Lab:

- Fundamentals Of Web Development
- Structuring the Page with HTML
- Styling the Page with CSS
- JavaScript: Client-Side Scripting
- Introduction to Server-Side Development with PHP
- Working with Databases
- PHP Cookies and Sessions

Web Technologies

Development & Platform Tools

- Any Web Editor – Microsoft Expression Web
- WAMP / XAMPP
- Any Web Browser

What is expected of you

- **You should abide to all the rules & regulation of APU**
  - ➢ **Proper attire**
  - ➢ **No speaking of dialects**
  - ➢ **Attendance is compulsory and valid medical certificates or letters from parents /guardians must support any absence from class.**
  - ➢ **Three lateness will be equal to one absence**
  - ➢ **All pagers and handphones should be turned off during lectures.**

What support is available for you

- **Consultation hours**

- **Resources**
 - ➢ **Reference material**
    - McFedries, P. (2018). Web Coding & Development All-in-One For Dummies. 1st ed. Hoboken, NJ : John Wiley & Sons, Inc. ISBN-13: 978-1119473923
    - Nixon, R. (2018). Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5. 5th ed. O'Reilly Media, Inc. ISBN-13: 978-1491978917
    - Blum, R. (2018). PHP, MySQL, & JavaScript All-in-One For Dummies. 1st ed. Hoboken, NJ : John Wiley & Sons, Inc. ISBN-13: 978-1119468387
    - Gilmore, W. J. (2018). Beginning PHP and MySQL: From Novice to Professional. 4th ed. Apress. ISBN-13: 978-1430231141
    - Ullman, L. (2017). PHP and MySQL for Dynamic Web Sites : Visual QuickPro Guide. 5th Ed. Berkeley, California : Peachpit Press. ISBN-13: 978-0134301846.

What support is available for you

- **Resources**
  - ➤ **Internet Resources**
    - ▪ W3Schools Online Web Tutorial (2019). Available at: https://www.w3schools.com/whatis/ (Accessed: 20 September, 2019)
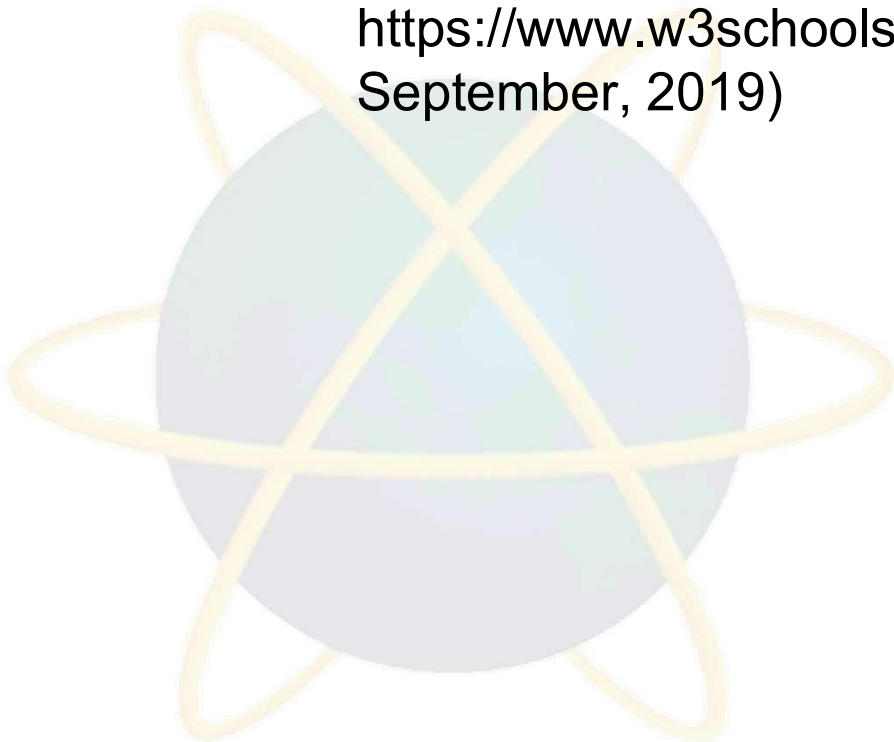
Assessment Methods

- **Incourse Assessment**   **100%**

  ➢ Group Project **(60%)**

    - Documentation(Essay): CLO2 – 35%

    - Presentation: CLO3 – 25%

Hand out	Hand in	Return
Week 3	Week 13	Week 14

  ➢ Final Exam **(40%)** : CLO1 – 40%

  **refer to SAIS for details

Achievement requirements

Undergraduate:

Marks	Alphabetical Grade	Grading Point	Classification
80-100	A+	4.0	Distinction
75-79	A	3.7	
70-74	B+	3.3	Credit
65-69	B	3.0	
60-64	C+	2.7	Pass
55-59	C	2.3	
50-54	C-	2.0	
40-49	D	1.7	Fail (marginal)
30-39	F+	1.3	Fail
20-29	F	1.0	Fail
0-19	F-	0	Fail

Question and answer session

Q & A
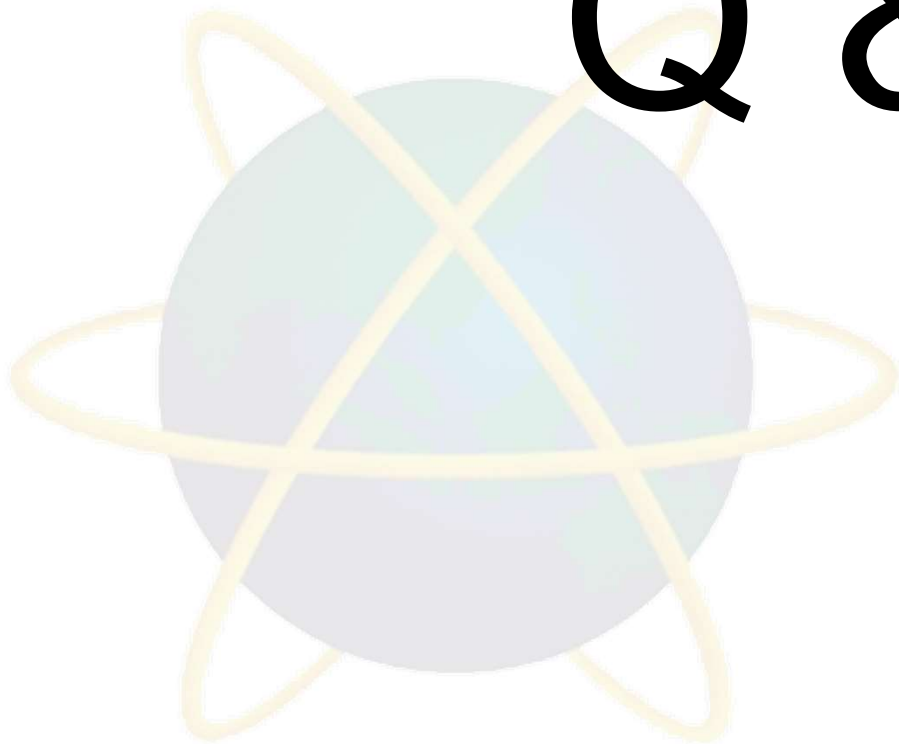
What we will cover next

- ## Fundamental of Web Development
  (Part 1- Introduction to Internet & World Wide Web)