

**Technology and System Integration in Architecture**  
**Course Number - WSDGSystems001**  
**Provider Number - C808**

Course at a Glance

- Course Delivery Type: **On Demand**
- This course is **1 LU|HSW**.
- Course Level: This course is **Introductory**
- Language: English

About this Course

Systems Design and Technology Integration. In today's world of increasingly complex technical media installations, multi-functional devices and computer-controlled sound and video systems, the integration of all equipment pieces into a working system is a complex engineering task. Understanding the design and end with the complete implementation of solutions for commercial, corporate and residential areas that seamlessly integrate, in such a way that the system is operable by personnel with differing needs and technical skills.

Prerequisite Knowledge:

Architecture and Engineering

HSW Justification:

Technology design is critical to configure the placement and distribution of Public Address PA Systems thru a building

Learning Objective 1:

Understanding the design and end with the complete implementation of solutions for commercial, corporate and residential areas that seamlessly integrate, in such a way that the system is operable by personnel with differing needs and technical skills.

Learning Objective 2:

IT and Communications Integration. Global IT and Communication integration including Research of existing current conditions, consultation with clients, and systems analysis of required specifications. How we can gather the information to provide suitable software and hardware solutions, liaising with other IT staff such as software engineers and programmers.

Learning Objective 3:

Whole House Technology and Automation. Control and Automation systems are a must in most of the modern architectural projects. From defining the project concept and initial specifications to front end engineering and design, our team can help you identify the right technology.

Learning Objective 4:

Home Theater Design. The dedicated Home Theater experience starts with the design that architecturally incorporates all the interior design, acoustical requirements, and carefully selected audio, video, and control equipment. A detailed plan of the home theater will provide room and

structural-acoustic design, interior design, architectural renderings, custom electronics specifications, and integration design.

Learning Objective 5:

Electroacoustic Systems Design. The most visible part of the Electro-Acoustical System is the loudspeaker system. Loudspeakers are complex electromechanical devices so varied, extensive, and rapidly shifting that is hard to oversee even for professionals. Recommendations are based on technical, aesthetical, and budgetary criteria tailored to the project at hand.

Learning Objective 6:

Theatrical Technology. Theatrical technology and lighting design allow us to explain the diverse and complex production and design processes of performance spaces. How to blend science with art to create beautiful environments and captivate audiences. We will explain the programming and implementation phases if this particular field.