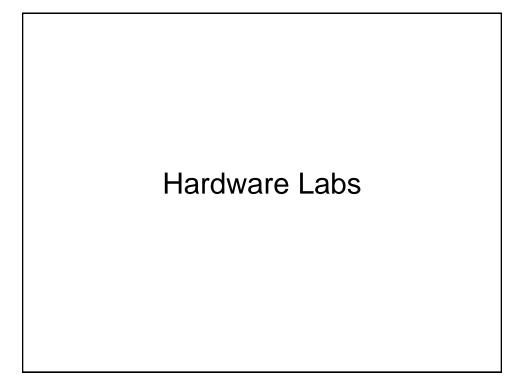
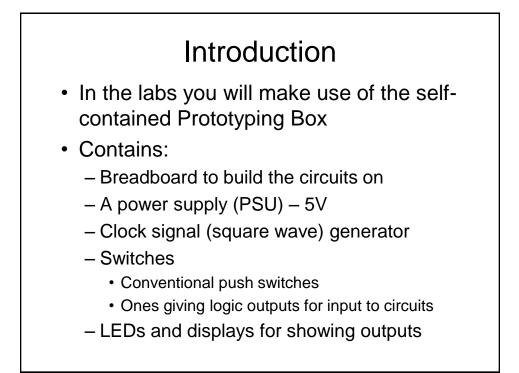


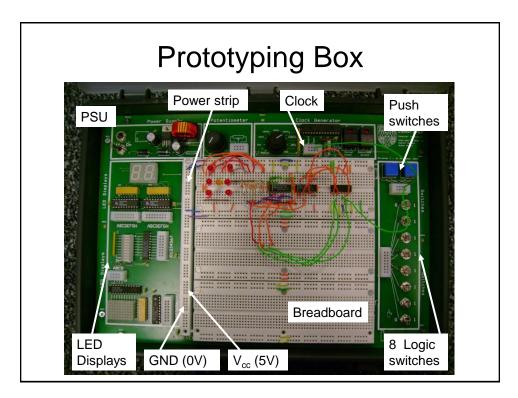
Dr. I. J. Wassell

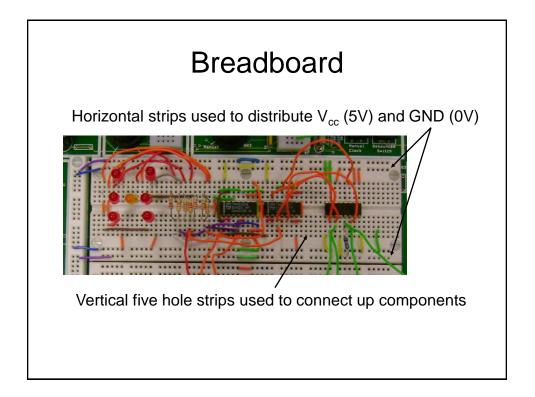


Introduction

- In the hardware lab you will:
 - Construct logic circuits on breadboards and test them
 - Design logic circuits and implement them using
 - Logic gates (SSI) and counter chips (MSI) logic
 - Memory devices (VLSI)
 - Programmable array logic (PAL) type devices specifically Generic array logic (GAL)









DIL Package

14-pin Dual in Line (DIL) package. 74HC00 device contains 4, 2-input NAND Gates where:

74 identifies the seriesHC identifies the technology00 identifies the function

Pin numbering – White dot indicates pin 1. Numbering increments as we move in an anticlockwise direction around the package

For 14(16) pin packages, pin 7(8) is usually GND (0V) and pin 14(16) V_{cc} (5V). However, there are exceptions!

