WEEK 1	**Getting Started** Study of Section 1 and 2 of the DIGIAC 2000 Microprocessor Training System Cirriculum Manual. Implementation of programs given in Exercise 1 and 2 pages 34, 40.
WEEK 2	**Reading from the Keypad, writing to the Display using PAT Monitor calls.** Implementation of a program which will read the keypad to input a 3 digit hexadecimal number, translate it into decimal and display the two numbers, the hexadecimal aligned right, the decimal aligned left
WEEK 3	**I/O Port Programming** Implementation on Port 2 of the Digiac 2000 a 1Hz binary counter controlled by the proximity detector
WEEK 4	**DIGIAC 2000 Application Module Usage** Implementation of a piezo-sounder alarm system using proximity detector as input
WEEK 5	**Analog-to-Digital/Digital-to Analog Conversion** Practical Assignment 19, Page 172 of the DIGIAC 2000 Cirriculum Manual
WEEK 6	**Motor Speed Measurement** Practical Assignment 19, Page 172 of the DIGIAC 2000 Cirriculum Manual
WEEK 7	**ORGAN** Implementation of an Organ using the piezo-sounder and the keypad. Keys representing only the hexadecimal values from 1 to F should be used. The following relationship between the keys and notes should be considered: 1-> 146Hz 2->164Hz 3->174Hz 4->196 Hz 5-> 220Hz 6->246Hz 7->267Hz 8->293 Hz 9-> 326Hz A->349Hz B->392Hz C->440Hz D->493Hz E->523Hz F->597Hz
WEEK 8	**Interrupts, motor speed measurement using the 8259 PICU** Practical Assignment 27, Page 216 of the DIGIAC 2000 Cirriculum Manual
WEEK 9	**Timer Programming, motor speed measurement using the 8256 MUART Timers** Practical Assignment 29, Page 235 of the DIGIAC 2000 Cirriculum Manual
WEEK 10	

Students Are Asked :

- To do all the necessary preparations for the experiments before coming to the Lab.
- To procure a complete Intel 8256 MUART's hardware Reference Manual