LIST OF ILLUSTRATIONS

Figure		Page
1	Biomechanics of Acceleration Phase	14
2	Biomechanics of Maximum Speed Phase	17
3	Assessing the Performance Using Stopwatches	20
4	Graphical Representation of Evaluation of Speed	26
5	Automatic Timing Assessments	37
6	Photo Finishing Technology	41
7	Photo Finishing Technology in Aquatics	43
8	Photo Finishing Technology in Horse Race	43
9	Laser Technology in Assessing Distance	49
10	Heart Rate Monitor	54
11	Pedometer	55
12	Condenser Microphone	63
13	Micro Switch	64
14	Circuit Diagram of micro switch	64
15	Infrared Transmitter Circuit Diagram	66
16	Infrared Receiver Circuit Diagram	67
17	Total IR Module Circuit Diagram	69
18	Power Supply Unit's Diagram	71
19	Power Supply Unit Circuit Diagram	72
20	Architecture of Pic 16f877	75
21	Pin Diagram of Ic16f877	76

LIST OF ILLUSTRATIONS(Continued)

Figure		Page
22	Micro switch Fitted with starting Blocks	78
23	Sprint Starting Position to Assess the Reaction Time	79
24	Assessing Reaction Time of 100m Sprinters in Starting Position on the Track	80
25	Method of Assessing the 20m Split Time of 100m Sprinters at Different Phases	81
26	Diagram of the Electronic Device Working Methodology at 100m Finishing Point	83
27	Flow Chart Showing the Methodology Adopted in this Study	86