Topics	Allocated Periods
Introduction to LabVIEW, Hooking the Computer up to the	45
Real World, LabVIEW Environment, LabVIEW Foundation,	
Cluster, Arrays, Structures in LabVIEW, Graphs Charts and	
File I/O, Getting date In and Out of Computer, DAQ and	
Intrument Control in LabVIEW, Functions and Structures and	
Communication.	
Transducers and Optical Techniques, Temperature, Pressure,	
Velocity, Species concentration, Vibration, Stress and strain,	
Lasers and laswer diagnostics, Computer Based data	
acquisition, digital I/O and counter/timers.	
Frequency Analysis, Frequency content of signals, Fourier	
Series, Fourier transform and frequency spectrum, discrete	
Fourier transform, Sample rate and aliasings.	
Digital Filtering: Transform function, first and second order.	
Bode plots digital filters, difference equation, discretising	
continuous-time filters.	