

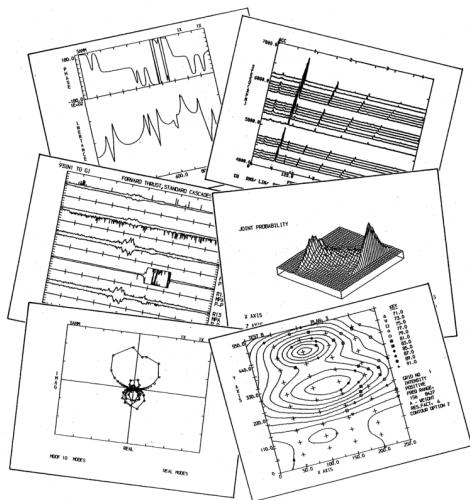
Introduction:

Digital signal processing equipment is widely used by engineers and scientists in the investigation of environmental and engineering problems. The aim of this two day intensive short course is to provide a basic understanding of the techniques of signal processing with particular emphasis on the practical aspects of the subject.

Delegates will benefit from a careful balance of teaching and practical demonstration sessions. Comprehensive notes covering all the lectures will be provided.

Participants:

The course will be of value to those wishing to acquire a basic practical understanding of the techniques of signal processing. No prior knowledge of the subject is required. Mathematics will be kept to the minimum necessary for an understanding of the subject.



Location:

The course will be held at the **Novotel Milton Keynes**. Special discount rates for CPD Dynamics course delegates are available. If you need overnight accommodation, please book directly with the hotel.

Outline Syllabus:

- Data acquisition, sampling and aliasing
- Pre-processing and calibration
- Spectral functions, FFT and psd
- Leakage, windowing and averaging
- Frequency resolution and Zoom Transform
- Input/output relationships
- Auto and cross correlation
- Transmission path analysis
- Recovery of signals in noise
- Frequency response functions H_0 , H_1 and H_2
- Techniques for dynamic testing
- Bode and Nyquist diagrams
- Coherence and coherent output power
- Multiple input/output systems
- Partial coherence, source ranking
- Basic amplitude statistics

Demonstrations:

Practical demonstration sessions will be held each day to reinforce concepts introduced in the lectures. The workshops will utilise signal processing analysers to provide an illustration of basic techniques, application areas and avoidable pitfalls in analysis procedures.

Course fee:

The short course fee of £465 includes tuition, course notes, lunches, refreshments and a course dinner on 21 March 2012 (excludes overnight accommodation).

Enquiries:

For further information contact:

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CPD Dynamics Ltd,
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MK16 8PL
U.K.

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Web : <http://www.cpd-dynamics.co.uk>

APPLICATION FORM
(Photocopies acceptable)

Practical Signal Processing 21 - 22 March 2012

Please complete in BLOCK CAPITALS.

I wish to attend the above course to be held at the **Novotel Milton Keynes**

Surname _____ Title _____

Forename _____

Job Title _____

Organisation /Company _____

Address _____

Telephone _____ Fax _____

E-mail _____

Course Fee: includes tuition, course notes, lunches, refreshments and the short course dinner on Wednesday 21st March 2012.

Please reserve _____ places @ £465

TOTAL £ _____

Please tick

Payment enclosed by cheque made payable to CPD Dynamics Ltd

Invoice my company quoting our Order Number _____

Invoice to be sent to:

Signature _____

Please return this completed form to:

Andy Tomlinson
CPD Dynamics Ltd, 4 Burns Close,
Newport Pagnell, Bucks, MK16 8PL, UK

Tel: 01908 611397

Mobile: 07958 543996

Fax: 01908 216069

Email: andy@cpd-dynamics.co.uk

Registration can only be confirmed if accompanied by payment and/or an official purchase order number. For provisional bookings please telephone in advance. Whilst cancellations or alterations are rare, we reserve the right to make such alterations if necessary. Cancellations made by delegates less than 14 days prior to the course will be liable to a 50% charge; less than 7 days a 100% charge. Substitutions can be made at any time. Please await confirmation of your reservation before making bookings for travel and accommodation.