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## **Composite Materials Technology**

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# Composite Materials Technology

**Short Course 12–14 June 2000**

University of Surrey  
School of Mechanical and Materials Engineering  
Guildford, Surrey, UK

## **OBJECTIVES**

To extend the knowledge and competence of those with some prior knowledge or experience of composite materials.

## **COURSE CONTENT**

A thorough treatment of basic mechanics, damage development and failure is given as well as an introduction to the principles of design including joints and repair. An overview of manufacturing processes is included with a more detailed analysis of 'pre-preg' processing and thermoplastic laminates. Design principles and methodology for manufacture of cost-effective composite articles is treated in some depth. There are review lectures on metal matrix composites, ceramic matrix composites and applications in several key technologies.

## **WHO SHOULD ATTEND?**

The programme has been designed for engineers and scientists with some basic understanding of composite materials science and/or some working experience with composites. It will be suitable for practising engineers who wish to update their understanding of composites and also for new graduates in engineering or materials disciplines. It would also serve as a conversion course for those with experience in other materials areas. Whilst the course itself demands no specific mathematical abilities, those with some understanding of stress analysis will gain more benefit.

Commencing at 09:30 am on Monday 12 June 2000, the course will finish at 15:00 on Friday 16th.

Composite Materials Technology is part of the Materials for Engineering Applications Programme: a range of short courses which may be taken individually or from which 7 courses may be selected and linked together with assessments and a project to form a modular, part-time MSc Degree Course.