# SECOND YEAR EXPERIMENTAL ENGINEERING
## MICHAELMAS TERM, 2015 and LENT TERM, 2016

## CODING OF LABORATORIES

| | |
|---|---|
| **A** | **Integrated coursework** |
| **D** | **Mechanics (i.e. D for Dynamics)** |
| **S** | **Structures** |
| **M** | **Materials** |
| **T** | **Thermofluids** |
| **E** | **Electrical** |
| **I** | **Information** |

## LIST OF EXPERIMENTS

| | | |
|---|---|---|
| **A1** | **Dynamic vibration absorber (MICH/LENT)** | **IC** |
| **A2** | **Model structures (MICH/LENT)** | **IC** |
| **A3** | **Soil mechanics (MICH/LENT)** | **IC** |
| **A4** | **Fourier signal (MICH/LENT)** | **IC** |
| **D1** | **Rotor dynamics (LENT)** | **S** |
| **E1** | **Integrated circuit power amplifier (MICH/LENT)** | **S** |
| **E2** | **Synchronous machine (LENT)** | **S** |
| **E3** | **Induction motor (LENT)** | **S** |
| **E4** | **Wave transmission (LENT)** | **L** |
| **I1** | **Spectrum analysis (MICH/LENT)** | **L** |
| **I2** | **Process control (MICH)** | **S** |
| **I3** | **Position control (MICH)** | **S** |
| **M1** | **Material characterisation (MICH/LENT)** | **S, L** |
| **M2** | **Heat Treatment of steel (MICH)** | **S** |
| **M3** | **Torsion testing (LENT)** | **L** |
| **S1** | **Plastic collapse (LENT)** | **S** |
| **T1** | **Heat pump (MICH/LENT)** | **S** |
| **T2** | **Pipe-flow (MICH)** | **S** |
| **T3** | **Boundary layers (MICH)** | **L** |
| **T4** | **Heat transfer (LENT)** | **S** |

**(S and L respectively denote a short experiment, and a long experiment with a separate report.  IC denotes Integrated Coursework)**

**Handouts for all laboratories are available online.  Hard copies of handouts are issued at the start of each lab.**

**The Lab Leaders responsible for each experiment are listed on the Teaching Webpages.**