School of Mathematics

Course 4D4 – Computer Aided Design 1999-2000
(Optional SS Mathematics, SS Engineering)

Lecturer: Prof. F. Neelamkavil & Mr. F. Shevlin (Comp. Sci.)

Requirements/prerequisites: 3D4

Duration: 18 weeks (First and Second Terms)

Number of lectures per week: 5 hours per week

Assessment:

End-of-year Examination: One 3-hour examination and course work

Description:

- Introduction to robotics
- Robot motion control schemes
- Image processing
- Vision applications
- Integrated robot-vision systems
- Modelling and simulation
- Genetic algorithms
- Cellular automata
- Solid modelling
- CAD applications

June 18, 1999