

# 97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	真空技術	Serial No. / ID	1132 / EGR5080
Dept.	電機工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	張國雄	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(一)ABC / H229	Language	Chinese

Introduction
,

Outline
1) What is vacuum, gas properties, gas flow 2) Gas release from solid, pumping speed 3) Pressure gauges and flow meters 4) Residual gas analyzers, interpretation of RGA data 5) Mechanical pumps, turbomolecular pumps 6) Diffusion pumps, pump fluids 7) Getter and ion pumps, Cryogenic pumps 8) Materials in vacuum 9) Joints, seals, valves and lubrications 10) Rough vacuum pumping 11) High vacuum systems 12) Ultraclean vacuum systems 13) High flow systems 14) Multichamber systems 15) Leak detection 16) Vacuum system in semiconductor industry

Prerequisite
,