National Taiwan University **Finite Element Method**

De a men of Ci il Enginee ing In c o : C.-S. CHEN

Home o k 3, 03/22/2019 D e: 03/27/2019

A4 professional format, collecting at the BEGINNING of class (09:09 am)

(late submission within 24 hours: score*0.9; late submission before post of solution: score*0.8

(the solution will be posted usually within a week))

Total 40%

1. (40%) Con ide a o-node linea elemen and a h ee-node ad a ic elemen ho n belo i h a con an c o - ec ional a ea A^e and Yo ng mod l E^e bjec ed o **sine distribution of body forces** $b(x) = 2\sin(\frac{\pi}{L}x)$. De i e he e e nal bod fo ce ma i $\mathbf{f}_\Omega^e$ fo he linea and ad a ic elemen , e ec i el .