Course Details  ME-4133 Kinematics  
Fall 2014

Lecturer  Dr. Yitshak Ram,  2513D PF Taylor  
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Office Hours  Tuesday 1:30-2:30  
Thursday 1:30-2:30

TA  Amirabbas Akbarzadeh  Email: aakbar1@lsu.edu  
TA Office Hours: Tuesday & Thursday  4:30-6:00  Room: 2149 PFT

Textbook  H.H. Mabie and C.F. Reinholtz  
Mechanisms and Dynamics of Machinery  

Content  Degrees of freedom, constraints and joints; Displacement Analysis -  
graphical and vector loops; Velocity Analysis - graphical (velocity  
polygons and instant centers) and vector loops, Acceleration Analysis  
- graphical and vector loops, Gears, gear trains and planetary gear  
train design; Cam design; Kinematics synthesis of mechanisms;  
Graphical, analytical and computer based force analysis

Assignments  Get an advanced permission from the instructor for a justified late  
submission of assignment

Assessment  10% Assignments  
25% Mini-Exam I  
25% Mini-Exam II  
40% Final Examination

Grading  You ensure the minimal grade for the brackets below  
85 ≤ A ≤ 100  
75 ≤ B < 85  
65 ≤ C < 75  
55 ≤ D < 65  
F < 55  
A (positive) uniform curving may be applied to the grades of the  
various tests

Web Site  http://me.lsu.edu/~ram/