Isfahan University of Technology (IUT) Department of Civil Engineering RIVER ENGINEERING 1401-1402 Term II

Assignment #1 River Geomorphology Due: 09/12/1401

- 1 Choose a reach of Karun River or one of its tributaries. This reach should include meandering channels. Using the Google Earth or any matching software,
 - (a) Divide the meandering channels into several reaches; calculate the sinuosity of the meandering and gradient of each reaches.
 - (c) Make a graph of the relationship between sinuosity and the gradients. Describe in words the result of the graph. Is the relationship linear?
 - (d) Find out if the graph can predict the sinuosity of another river. Was your prediction matches the measured one? Explain why or why not.
- Write a summary and critical review on the research paper you obtained on fluvial morphology. Your summary should include details of the research project, assumption and findings. Critique the paper as if you were reviewing it for publication. Comment on the engineering applicability of the work presented.