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CHEMICAL ENGINEERING DESIGN

Gavin Towler is the Senior Manager of Process Design, Modeling and Equipment at UOP LLC He manages the areas of process design and optimization, equipment design, and physical and kinetic modeling for UOP Research and Development As adjunct professor at Northwestern University, he teaches the chemical engineering senior design classes

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the chemical engineer, a new chemical product or a stage in the design of a production process When considering possible ways of achieving the objective the designer will be constrained by many external factors see fig (1-1):- 1-Economic considerations are obviously a major constraint on any engineering design: plants must make a profit

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experimental results, chemical engineers can develop an understanding of the important underlying physical science relevant to the problem and use their understanding to create a plan of action and a set of detailed specifications, which, if implemented, will lead to a predicted financial outcome” Chemical Engineering Design, Towler, Sinnott

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Set design basis (1 week) Confirm performance/scale-up of pilot plant operations (2-20 weeks, depending on how smoothly pilot plant runs) Optimize and select design (10-20 weeks) Detailed design and equipment selection (about six months) In parallel to these process design activities there will be activities related to getting approval for

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ChE160: Chemical Process Design Spring 2016 Course Syllabus

Towler, Gavin and Sinnott, Ray, “Chemical Engineering Design; Principles, practice, and economics of plant and process design”, 2 nd Ed, Elsevier,

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