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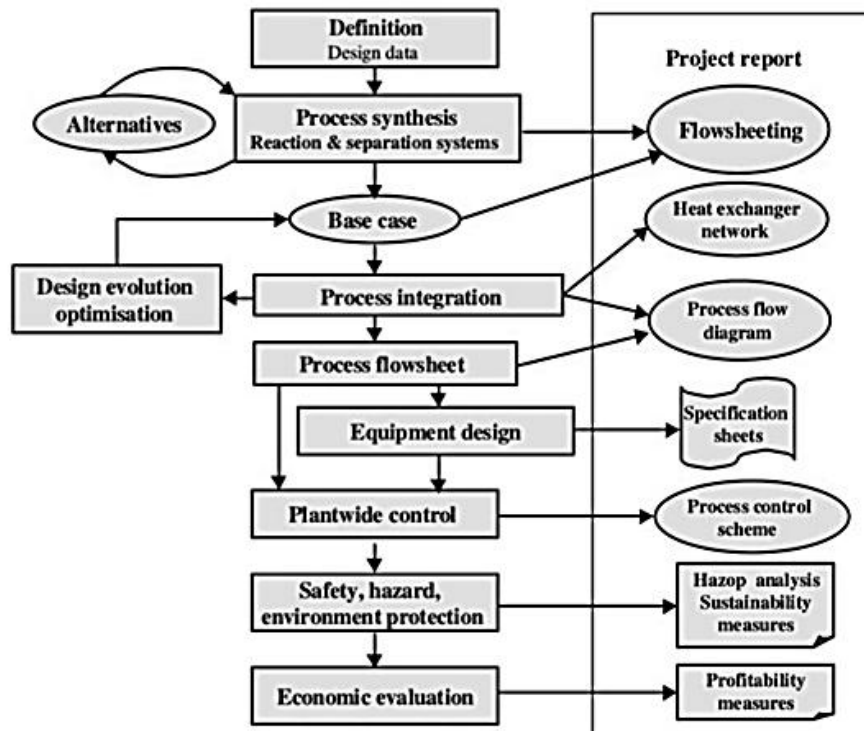


Figure 1.1 Outline of a design project.

3. Select a good base case. Determine a consistent material balance. Improve the design by using *process-integration* techniques. Determine targets for utilities, water and mass-separation agents. Set performance targets for the main equipment. Optimize the final flowsheet.
4. Perform *equipment design*. Collect the key equipment characteristics as *specification sheets*.
5. Examine *plantwide control* aspects, including safety, environment protection, flexibility with respect to production rate, and quality control.
6. Examine measures for *environment protection*. Minimize waste and emissions. Characterize process sustainability.
7. Perform the *economic evaluation*. This should be focused on profitability rather than on an accurate evaluation of costs.
8. Elaborate the *design report*. Defend it by public presentation.

In the process-integration project the goal is to encourage the students to produce original processes rather than imitate proven technologies. The emphasis is on learning a systemic methodology for flowsheet development, as well as suitable systematic methods for the design of subsystems. The emphasis is on generating flowsheet alternatives. The student should understand why several competing

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