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| 1928<br>K. N. Toosi University of Technology | *In the name of God*<br>**Computer Vision** | Faculty of mechanical engineering |
| Instructor:<br>Dr. Esmaeil Najafi | Project (Phase 3) | Due date: 01/04/01 |

Steel is one of the essential building materials of modern times. Steel buildings are resistant to natural and manufactured wear, which has made the material ubiquitous around the world. In order to help make the production of steel more efficient, this project will help identify defects. A dataset has been gathered from steel sheets with four different defects. You need to localize and classify the defects. In order to do that, train U-net and FCN-8 on this dataset and evaluate your models. Searching and applying the appropriate evaluation metrics is part of the task. You also need to make prediction and visualize the predictions on the following images from test data:

0000f269f, 000ccc2ac, 002451917, 003c5da97, 0042e163f, 004f40c73, 00513039a, 006f39c41, 008725cbc, 0098ca44e

Note that this project should represent what you have learned during this course, so use whatever you think is necessary. Good Luck