



Final Year Project Showcase for Batch-2016

Department of Industrial Manufacturing Engineering		
1	Project Idea	To develop a decision-based manufacturing system for quality inspection in real time
2	Process	Finished work pieces on conveyor undergoes for visual inspection in the system, which upon examination through camera will decide whether to accept or reject the part. The rejected part slides away through rejection mechanism whereas the accepted part is transported to its specified location. The whole system is connected to the data base in order to give valid results in real time
3	Outcome	Automated system ensuring enhanced and faster inspection rates with minimum error.
4	Evidences (Theoretical Basis)	Machine learning algorithm, website for continuous monitoring and control, prototype smart visual inspection system
5	Competitive Advantage or Unique Selling Proposition (Cost Reduction, Process improvement, Attainment of any SDG (Sustainable Development Goal), increase of market share or capturing new market or having superior performance over competitor. In summary, any striking aspect of the project which compels industry to invest in FYP or purchase it. Some detail description is required in terms of how, why when what. You can select one or more from following dropdown and delete rest of them)	
a	Process Improvement which leads to superior product or cost reduction, efficiency improvement of whole process (e.g. What is issue is current process and what improvement you suggests)	One-time cost since there is no recurring cost subjected to labors' cost
6	Target Market (Industries, Groups, Individuals, Families, Students, etc) Please provide some detail about user of the product, process or service	Students for their research projects, industries who want to opt for automation and implement automated systems
7	Team Members (Names & Roll No.)	Hassan Ghorl IM- 025 Aimen Mohsin IM-072 Furqan Ahmed IM -064 Auliya Hameed IM-037
8	Supervisor Name	Maria Iruj (mariairuj@neduet.edu.pk)
9	Video	Play Video
10	Picture	