

Research work carried out at NEU, June 2017

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- 1- A major part of the recent research work carried out in the Mechanical Engineering Department has been concentrated on the production of biodiesel fuel using waste cooking oil and various nonedible oils including jojoba seed oil as the feedstock. The biodiesel samples produced have been characterised following the EN standards and the final attempt will be the commercialization of the product. A number of PhD theses, MS theses and numerous final year graduation projects have been completed on the topic. Publications in the national and international journals and also in the national and international symposiums and meetings have been made. A part of this general survey has investigated the three cold flow properties, namely cloud point, cold filter plugging point and pour point of the biodiesel samples. The aim has been to adjust the three properties suitable for the current diesel engines and also climate of the TRNC.
- 2- Research work on bone and orthopaedic biomaterials and also investigation of implant failures ceased at preliminary stages.
- 3- MS theses on corrosion failures, failures and their prevention in oil, natural gas and water pipelines have supervised with the co-supervisors from the countries of the graduate students.
- 4- A research project proposal on crush boxes for vehicles has been submitted.