NON TRADITIONAL ABRASIVE MACHINING PROCESSES ULTRASONIC, ABRASIVE JET AND ABRASIVE WATER JET MACHINING

TYPE OF COURSE : Rerun | Elective | UG
COURSE DURATION : 4 weeks (27 Jan' 20 - 21 Feb' 20)
EXAM DATE : 29 Mar 2020

PRE-REQUISITES : Nil
INTENDED AUDIENCE : Interested students

COURSE OUTLINE:
This course will define the areas of application of non-traditional abrasive machining processes in the manufacturing industry. The lectures would introduce the basic principles of material removal by impact erosion by use of abrasives against hard and brittle materials. The technology of the manufacturing processes will be explained in detail. The machines used for USM, AJM and AWJM would be discussed. A variety of numerical problems would be solved. Material removal rates for the above processes would be worked out and effects of various input factors on the outputs of interest would be discussed.

ABOUT INSTRUCTOR:

COURSE PLAN:
- Week 1: Introduction and Ultrasonic machining (USM)
- Week 2: USM -Contd.
- Week 3: Abrasive Jet Machining (AJM)
- Week 4: Abrasive water jet machining (AWJM)