TRACCIA 1

1	Circuiti risonanti in serie o parallelo
2	Tensione di snervamento e a rottura: definizione e identificazione sperimentale
3	Tradurre dall'inglese all'italiano il seguente testo: *Features:* *- This is a three-axis modeling machine. Despite its compact size, it offers a wide work area and plenty of power. You can get started cutting simply and easily, just by connecting it to your computer.* *- A dedicated CAM program is included as a standard feature.* *- AC servo motors are used for the X, Y, and Z axes. The software resolution (minimum unit of movement) is a high-resolution 1 μm (in the NC-code mode). Simultaneous three-axis control is possible.* *- An ATC unit and rotary axis unit (A -axis) can be installed, enabling you to cut complex shapes in a single procedure. When the rotary axis unit is installed, simultaneous four-axis control is possible.* *- The LEGO-FIX (R) ER16-compliant spindle nose lets you make use of a wide variety of tooling systems.* *- The controller supports both RML-1 and NC codes, allowing you to use a wide range of software.* *- Often-used features are grouped together on the handy panel for easy operation. Also, detailed settings are made on the computer. The display is large and designed for easy understanding.*
4	Gli organi del Dipartimento

TRACCIA 2

1	Generatore equivalente di tensione o di corrente
2	Caratterizzazione sperimentale della rigidezza elastica dei materiali
3	Tradurre dall'inglese all'italiano il seguente testo: *Overview* *DOLI has very powerful software for data acquisition and closed loop control for testing instruments like tensile testers. This software runs on a hardware platform from DOLI like EDC5/25, EDC100, EDC60/120, EDC220/222, EDC580/580V and others. It is configurable within a wide range to satisfy all requirements at a testing instrument.* *Communication between EDC and PC is handled by a communication layer, called DPX. DPX is a safe protocol and supports currently RS232, USB, and Ethernet (LAN) as transportation layer.* *DoPE represents the interface to access all EDC-functions from any standard PC with Windows.* *Tasks of DoPE:* *- DoPE will initialize the EDC according to predefined set-up data, stored in EDC memory.* *- DoPE provides the application program with measuring data in SI-units (N, m etc.)* *- DoPE offers a wide range of machine control commands Simple commands like: "move Up in position control with 0.01 m/sec" Complex commands like: "move in position control with 0.02 m/sec to 500 N and keep 500 N in load control" Cycling commands like: "do 100 sinusoidal load cycles with an amplitude of 100N with 3 Hz"* *- DoPE reports events like limit switch etc.*
4	Finalità e funzioni principali dell'Università

TRACCIA 3

1	Potenza in regime sinusoidale
2	Identificazione di caratteristiche di fragilità o duttilità di materiali
3	Tradurre dall'inglese all'italiano il seguente testo: *Introduction* *The NI USB-9233 data acquisition device provides a USB interface for four channels of 24-bit analog inputs with integrated signal conditioning.* *The NI USB-9233 consists of two components: an NI 9233 module and an NI USB-9162 carrier, as shown in Figure 1.* *Wiring the NI USB-9233 Device* *The NI USB-9233 has four BNC connectors that provide connections for four simultaneously-sampled analog input channels. Each channel has a BNC connector to which you can connect an integrated electronic piezoelectric (IEPE) sensor. The center pin of the connector, AI+, provides* *the DC excitation and AC signal connection. The shell of the connector, AI–, provides the excitation return path and AC signal ground reference.* *Refer to Figure 6 for the connector assignments for each channel.*
4	Consulta dei Direttori