

LABORATORY WORK SHEET

Name of the Student Pcddinti Kusuma Class CSE-C Semester U	Roll Number
Course Code: AMEDO2 Course Name: Mp Kab	23951A0545
Name of the Course Faculty, Dr. Paidi Raghavulu	Faculty ID LARC LOGS
Exercise Number 12 Week Number 12	

DAY TO DAY EVALUATION:

Marks	Aim / Preparation	Algorithm / Procedure	- Source Code	Program Execution	Viva - Voce	Total
		Performance in the Lab	Calculations and Graphs	Results and Error Analysis		
Max. Marks	4	4	4	4	4	20
Obtained	4	3	3	4. ,	3	67

Signature of Faculty

START WRITING FROM HERE:

DEMONSTRATION OF XATTLE SYSTEM SWITCHABLE ON ONE FUNCE SIMULATOR.

AIM: Demonstration of lathe system scotchable on one funce simulator.

Equipment required: Funue Simulator.

Introduction to FANUE simulator:

The Famue chic simulator brings the worlds most popular control right into your workplace training from, providing hands on training for Famue case operation without the need for a full machine. Add Machining Simulation software to the enc simulator for advanced machine Simulation capability.

2) this pe based platform is perfect for training and designing part programming. The car machining Simulation software

provides a digital twin of the machine tool producing the real would cutting process. This provides you with the most realistic simulation of the actual machining on Your floor. To prepare the industry for more complex machining knowhow, a 5-axis machining training option is now available.

5) For companies needing a more tailored offering, FANUC America's enc (system. More robust) Hardware Simulators are tully tuctional ences that include the panel and operating system. More robust than our CNS simulators, our cox Hardware Simulators are complete control Simulators customized to address your specific workplace training needs. Operations needing a particular enc model for their shop floor training will benefit from these simulators.

Preparation of milling and lathe system switchable on one

-) Switchable mill and dathe (turning) system in one simulator

3- axis milling 12 axis turning 8 ystem plus one spindle

Manual Guide is installed for conversational program creation and 30 simulation

Imperial / Metric switchable 1/10 mm to 1 >> states part-program storage, with 400 registered programs

32 tool offset pairs

Workpiece coordinates G52, G59 plus 48 additional on mill

CNC Manual Coding:

```
01235 -> program name: It should be O (alpha) betic and numeric
Gal Gas cos or Gal Gas -> Gal: Metric data
                         -> 698: Feed of the tool momliminate
                         -> 608 -> end of block
Gas uo.0 wo.0; - To moving to home position
MOB TOIDI; -> To tool change, Toll no of
Mos soon; -> spindle on, spindle speed 600 ipm
Goo 25.0 x25.0; -> 6.00 move tool with out operation fastly.
 Goo 22.0 x23.0; -> make tool still close to work Piec
 MOS: -> MOS cookent ON
GOO X190; 1st step-1 CUT
GOI 2-60 F45;
GOI X22.0 F45;
0.00 22.0;
GOO KISO; IST STEP and OUT
 GOI 2-60.0 F45;
 GO! X22.0 FA5;
800 XIZ. 0; 134 STEP 378 OUT
GOI 2-60 , FA5;
 6101 X2:02 T45 ;
 000 x16.0; and step1-cut Gol 2-
 10.0 FAS;
 GOI X23.0 FAS ;
 GOO 22.0;
 GOO XIS.O', and STEP 11-WT
 GIOL 2-30.0 FAS;
 GOL X23.0 FA 5 ;
 G100 22.0;
 GOD KI4.0; 2nd STEP 3rd WT
 001 2-30.0 FA5 ;
 GOI X23.0 FA5;
                         3/4
 G00 22.01,
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Gas voo wood -) Tool to home position MOS; -> SPINDLE OFF

-> COOLENT OFF

M30 - And of the program.

Results:

The work piece of required dimensions is isimulated using Funce simulator with cre code to perform plain and step turning on ENC Lathe.

19-57 appropriate to the state of the state