Announcements

About the Course

Ask a Question

Mentor **Progress**

Unit 2 - Week 00

Course outline	Assignment 00
ow does an NPTEL online ourse work?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.
/eek 00	
Quiz : Assignment 00	 Following stream does not use Computer Integrated Manufacturing (CIM):
	Mechanical Engineering
/eek 01	Industrial Engineering
eek 02	Production Engineering
	All of these may use CIM
Veek 03	No, the answer is incorrect. Score: 0
Veek 04	Accepted Answers: All of these may use CIM
Veek 05	Which is not a typical example of a manufactured product?
Veek 06	○ A laptop
	A chair
eek 07	O A suitcase
eek 08	O An IT manager
eek 09	No, the answer is incorrect. Score: 0
/eek 10	Accepted Answers: An IT manager
/eek 11	Finance, Operations, Personnel, and Marketing are major branches of an degree.
	○ MBA
eek 12	○ B. Tech
ownload Videos	○ B. Sc.
	○ B. A.
ext Transcripts	None of these
	No, the answer is incorrect.
	Score: 0 Accepted Answers:
	MBA
	 Best word for act of putting together the component parts of a machine or other object is
	Collecting
	Assembling
	Segregating
	Fitting
	No, the answer is incorrect.

Assignment 00	
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2020-01-27, 00:00 IST.
Following stream does not use Computer Integrated Manufacturing (CIM):	1 poin
Mechanical Engineering	
Industrial Engineering	
Production Engineering All of these may use CIM	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
All of these may use CIM	
Which is not a typical example of a manufactured product?	1 poin
O A laptop	
A chair	
O A suitcase	
O An IT manager	
No, the answer is incorrect. Score: 0	
Accepted Answers: An IT manager	
Finance, Operations, Personnel, and Marketing are major branches of an degree.	1 poin
○ MBA	
○ B. Tech ○ B. Sc.	
○ B. A.	
O None of these	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
MBA	
 Best word for act of putting together the component parts of a machine or other object is 	1 poin
Collecting	
Assembling	
Segregating Fitting	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
Assembling	
5) CAM is typically used for:	1 poin
Marketing	
Machining	
Accounting	
None of these No, the answer is incorrect.	
Score: 0	
Accepted Answers: Machining	
6) Computers surely help to:	1 poin
Reduce computation time	
Ease in accounting	
Record the data	
O All of these	
No, the answer is incorrect. Score: 0	
Accepted Answers: All of these	
7) A system is	1 poin
a set of techniques anything within a specified boundaries and works in unison	
anything within a specified boundaries and works in unison Both of these	
O None of these	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
anything within a specified boundaries and works in unison	

1 point

NPTEL » Computer Integrated Manufacturing

Progress Mentor

Unit 3 - Week 01

Course outline	Assignment 01	
How does an NPTEL online course work?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2020-02-12, 23:59 IST.
Week 00	Productivity is the ratio of minimum output produced with the maximum Input.	1 poi
Week 01	○ True	
Lecture 1, Introduction to CIM	○ False	
(part 1 of 2), Dr. Janakarajan	No, the answer is incorrect.	
Ramkumar	Score: 0	
Lecture 2, Introduction to CIM (part 2 of 2), Dr. Janakarajan Ramkumar	Accepted Answers: False	
Lecture 3, Computers and	Material handling system handles the system by providing right quantity at right time and at right location.	1 poi
Manufacturing Systems (part	○ True	
1 of 3), Dr. Janakarajan	○ False	
Ramkumar	No, the answer is incorrect.	
Lecture 4, Computers and	Score: 0	
Manufacturing Systems (part 2 of 3), Dr. Janakarajan	Accepted Answers: True	
Ramkumar		
Lecture 5, Computers and	3) Three type of CIM integration are, Application & Business.	1 poi
Manufacturing Systems (part	O Environmental	
3 of 3), Dr. Janakarajan	O Physical	
Ramkumar	O Chemical	
Quiz : Assignment 01	O Mechanical	
Computer Integrated Manufacturing: Week 1	No, the answer is incorrect. Score: 0	
Feedback	Accepted Answers:	
Solution: Assignment 01	Physical	
ek 02	4) What area(s) are covered in Manufacturing Planning and Control?	1 poi
ek 03	O Materials	
JR 00	Scheduling	
ek 04	O Quality Planning	
	O All of these	
ek 05	No, the answer is incorrect.	
eek 06	Score: 0 Accepted Answers:	
	All of these	
ek 07	5) Manufacturing support system in Production system includes Product design, Manufacturing Control, Manufactu	rring planning & 1 poi
ek 08	Customer support	
ok 00	Business function	
ek 09	O Forecasting	
ek 10	O None of these	
ek 11	No, the answer is incorrect. Score: 0	
ek 12	Accepted Answers: Business function	
wnload Videos	Manufacturing system is a of equipment & workers in factory.	1 poi
t Transcripto	O random arrangement	
t Transcripts	random arrangement	
	Sequence grouping	
	O logical grouping	
	Odescription	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: logical grouping	

7) Driver running a bus, operator use a drill machine to hole, washerman using a washing machine to wash the clothes are the example of:

Manual work system

Automated system

No, the answer is incorrect.

8) Which automation is suited for high production quantities:

9) The computerized technology that is used to draft/design parts is known as:

10) Which manufacturing system is best suited for batch production?

All of these

Accepted Answers: Worker-machine system

Fixed Automation

Flexible Automation

No, the answer is incorrect.

O None of these

Accepted Answers: Fixed Automation

Score: 0

CAD

○ CIM

○ CAM

Score: 0

CAD

All of these

Accepted Answers:

Fixed Automation

Any of these

Accepted Answers:

Score: 0

Flexible Automation

No, the answer is incorrect.

Programmable Automation

Programmable Automation

No, the answer is incorrect.

O Programmable Automation

Score: 0

Worker-machine system





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Progress

Mentor

1 point

1 point

1 point

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. 1) Design is a non-iterative process: True False No, the answer is incorrect. Score: 0 Accepted Answers: False 2) What is the full form of KISS in design approach? Keep it simple and stupid Know, iterate, spend, sustain Know, iterate, spend, sust			
As per our records you have not submitted this assignment. 1) Design is a non-healthy process: The False No, the answer is incorrect. Socret 0 Accepted Answers: A	es an NPTEL online work?	Assignment 02 The due date for submitting this assignment has passed.	Due on 2020-02-12, 23:59
True False False No. the answer is incorrect. Score. 19 Accepted Answers: Answers A D. Computer Coachise A Q. D. Javanscription mark False When Is the full form of KiSS in design approach? A D. Computer Chaptics A Q. D. Javanscription mark False When Is the full form of KiSS in design approach? A D. Computer Chaptics A Q. D. Javanscription More, thereta, sprofe, studied More, the answer is incorrect. Accepted Answers: Accepted Answers: Accepted Answers: Accepted Answers: Accepted Answers: An of These No. the answer is incorrect. A Computer Chaptics A I of These No. the answer is incorrect. A Computer Chaptics A I of These No. the answer is incorrect. A Computer Chaptics A I of These No. the answer is incorrect. Accepted Answers: A I of These No. the answer is incorrect. Accepted Answers: A I of These No. the answer is incorrect. Accepted Answers: A I of These No. the answer is incorrect. Accepted Answers: A Computer Chaptics Accepted Answers: Accepted Answ		As per our records you have not submitted this assignment.	
False (A. Computer Crophics (A. C. Computer Crophics (A. C. Computer Crophics (A.)	Design is a non-iterative process:	
6. Computer Graphica Of 4, Dr. Janisanizarian Part Part Part Part Part Part Part Part		○ True	
## Score: 0 Accepted Answers: False 7. Computer Oraphics 14. D. Junisharingian 15. Computer Oraphics 16. Com		False	
Accepted Answers: False False False False False False False Accepted Answers: False False Accepted Answers: False Accepted Answers: False What is the full form of KSS in design approach? (Keo, I small and standard Accepted Answers: Keo, I small and standard Accepted Accepted Answers: Keo, I small and standard Accepted Accepted Accepted Accepted Accepted Accepted Accepted Accepted Accepted Answers: Keo, I small and Accepted Accept	e 6, Computer Graphics		
of Ap C. Janksarsgan must R. Computer Comprision G. Orthogogo S. P. small and standard R. Computer Comprision G. Orthogogo S.	of 4), Dr. Janakarajan umar		
No. per annual standard	e 7, Computer Graphics	2) What is the full form of KISS in design approach?	
Recorpolate Oraphics A Computer Oraphics A Comput	of 4), Dr. Janakarajan		
Know, Iterate, spend, austian Year Chapter Chapters			
S. Computer Cresphois of 4, Dr. Januaharagen was provided and the answer is incorrect. Score of 5, Dr. Januaharagen was provided and the pro			
No. the answer is incorrect. 4 (A) C. Australian Accepted Answers: Applied Accepted Answers: All of these No. the answer is incorrect. Score Accepted Answers: All of Accepted Answers: Beth Answers incorrect. Score On Accepted Answers: Accep	mar		
of 4, Dr. Januararian No. the answer is incorrect. Assignment 02 In helps in assembling of the parts Since there is a postable by of variations due to machining To accommodate little errors All of these No. the answer is incorrect. Score. 0 Accepted Answers. All of these No. the answer is incorrect. Score. 0 Accepted Answers. If the answer is incorrect. Score. 0 Accepted Answers. If the answer is incorrect. Score. 0 Accepted Answers. If the answer is incorrect. Score. 0 Accepted Answers. If the answer is incorrect. Score. 0 Accepted Answers. If the answer is incorrect. Score. 0 Accepted Answers. If the answer is incorrect. Score. 0 Accepted Answers. If the answer is incorrect. Score. 0 Accepted Answers. If the answer is incorrect. Score. 0 Accepted Answers. Intervally Shapes No. the answer is incorrect. Accepted Answers. Float Intervally Shapes No. the answer is incorrect. Accepted Answers. Float Accepted Answers. Float and coordinate system Both the right and lett hand systems can be used Computer cose and require a coordinate system to display No. the answer is incorrect. Score. 0 Accepted Answers. Float and coordinate system Both the right and coordinate system is also known as: User coordinate system To Universal or Model coordinate system is also known as: User coordinate system Display coordinate system	e 9, Computer Graphics		
Assignment 02 Assignment 02 Assignment 02 It hilds in assembling of the parts It halps in assembling of the parts It has answer in incorrect. Score: 0 Accepted Answers: Accepted Answers: True 5 Graphic Monitors display pictures by dividing the display screen into thousands (or millions) of: Colors Pusis It videos It videos No, the answer is incorrect. Score: 0 Accepted Answers: True 6 Graphic Monitors display pictures by dividing the display screen into thousands (or millions) of: Colors Pusis It minerally Shapes No, the answer is incorrect. Score: 0 Accepted Answers: Fuels 6 Which Cartesian coordinates system is generally used for defining the geometry of the parts in the computer? Left hand coordinate systems as generally used for defining the geometry of the parts in the computer? Left hand coordinate systems as generally used for defining the geometry of the parts in the computer? Left hand coordinate system or require a coordinate system to display No, the answer is incorrect. Score: 0 Accepted Answers: Right hand coordinate systems can be used Computer does not require a coordinate system to display No, the answer is incorrect. Score: 0 Accepted Answers: Right hand coordinate systems as also known as: Usive coordinate system Violate coordinate system to also known as:	of 4), Dr. Janakarajan		
3) Wity tolerance is given to a part? tok commend to the part is a possibility of the parts of the parts of the part is shown there is a possibility of variations due to machining To accommodate little errors All of these No, the answer is incorrect. Score: Accepted Answers: All of these 4) We can get the mass and inertia properties in CAD. True False No, the answer is incorrect. Score: 0 Accepted Answers: True 5) Graphic Monitors display pictures by dividing the display screen into thousands (or millions) of: Colors Rudes Internally Shapes No, the answer is incorrect. Score: 0 Accepted Answers: Places 6) Which Cartesian coordinate system is generally used for defining the geometry of the parts in the computer? Left hand coordinate system Bight hand coordinate system is also known as: User coordinate system Viniversal or Model coordinate system Bight part of coordinate system Universal or Model coordinate system is also known as: User coordinate system Viniversal or Model coordinate system User coordinate system			
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Accepted Answers: Right hand coordinate system 7) Universal or Model coordinate system is also known as: User coordinate system World coordinate system Display coordinate system		No, the answer is incorrect.	
7) Universal or Model coordinate system is also known as: User coordinate system World coordinate system Display coordinate system			
User coordinate system World coordinate system Display coordinate system			
World coordinate system Display coordinate system		7) Universal or Model coordinate system is also known as:	
Oisplay coordinate system			
All -File			

World coordinate system

Oyan, Magenta, Yellow

Ocolour, Maroon, Yellow

Oyan, Maroon, Yellow

No, the answer is incorrect. Score: 0

A(2,2), B(5,2), C(5,-6), D(2,-6)

A(2,-2), B(5,-2), C(5,6), D(2,6)

A(2,-2), B(5,-2), C(5,-6), D(2,-6)

A(-2,2), B(-5,2), C(-5,6), D(-2,6)

No, the answer is incorrect. Score: 0

 $A(2,-2),\ B(5,-2),\ C(5,-6),\ D(2,-6)$

A(2,2), B(5,2), C(5,-6), D(2,-6)

A(2,-2), B(5,-2), C(5,6), D(2,6)

No, the answer is incorrect.

A(-2,-2), B(-5,-2), C(-5,-6), D(-2,-6)

Accepted Answers:

Score: 0

A(2,-2), B(5,-2), C(5,-6), D(2,-6)

A(-2,-2), B(-5,-2), C(-5,-6), D(-2,-6)

Accepted Answers:

Accepted Answers: Cyan, Magenta, Yellow

Oclour, Magenta, Yellowish green

8) What are the primary colors in CMY colour model?

9) Find the reflected position of the quadrilateral A(2,2), B(5,2), C(5,6), D(2,6) about the X-axis.

10) Find the reflected position of the quadrilateral A(2,2), B(5,2), C(5,6), D(2,6) about an axis perpendicular to XY plane.

Mentor

1 point

outline	Assignment 03	
s an NPTEL online ork?	The due date for submitting this assignment has passed. Due on 2020-02-1	19, 23:59 IST
	As per our records you have not submitted this assignment.	
	In NC part programming, a series of coded instructions is required to produce the part	1 po
	○ True	
	O False	
	No, the answer is incorrect. Score: 0	
e 10, Geometric ing (part 1 of 2), Dr. irajan Ramkumar	Accepted Answers: True 2) In Helical Interpolation, free form curves using higher order equations is used.	1 pc
e 11, Geometric ing (part 2 of 2), Dr. irajan Ramkumar	○ True ○ False	
e 12, Computer ical Control (part 1 of Janakarajan	No, the answer is incorrect. Score: 0 Accepted Answers: False	
e 13, Computer	3) To Control auxiliary control function in CNC machine we use:	1 pc
Janakarajan	○ CPU ○ MCU	
mar 2.14 Computer	O MCU O DNC	
e 14, Computer ical Control (part 3 of	O None of these	
Janakarajan mar	No, the answer is incorrect. Score: 0	
e 15, Computer ical Control (part 4 of Janakarajan mar	Accepted Answers: MCU 4) For a geometry, we generally use absolute positioning; and in geometry incremental positioning is used generally.	1 p
Assignment 03	Simple; dynamic	
ter Integrated acturing: Week 03	complex; dynamic simple; complex	
n: Assignment 03	complex; simple	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	simple; complex	
	5) A 'revolved feature' is generally used to create solid models of objects.	1 p
	axisymmetric	
	onon-symmetric symmetric	
	Both symmetric and axisymmetric	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	axisymmetric	
	6)includes the properties of both the Bézier and B-spline curves.	1 p
Videos	Rotational curves Hermite curves	
	O NURBS curves	
ripts	O All of these	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: NURBS curves	
	7) Which of these is not the major type of surface used in Geometric Modelling	1 p
		, ρ
	Planar surface Curved surface	
	Bezier surface	
	Free-form surface	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: Bezier surface	
	DOLIOI GUITAGO	

9) What will be the final coordinates of the triangle after scaling it with respect to the origin, with vertices at original coordinates (10,20), (10,10), (20,10) 1 point

osurface; volume

O line; surface

ovolume; line

surface; solid

Accepted Answers:

line; surface

by Sx=1.5, Sy=3.

No, the answer is incorrect. Score: 0

(10,40), (15,30), (15,30)

(60,60), (30,15), (20,30)

(15,60), (30,15), (30,30)

(15,60), (15,30), (30,30)

No, the answer is incorrect. Score: 0

10) Find reflected position of the Triangle (4,9), (3,2), (6,8) about line Y=X axis.

Accepted Answers: (15,60), (15,30), (30,30)

(9,4), (2,3), (6,8)

(9,4), (3,2), (8,6)

(9,2), (2,3), (8,6)

Accepted Answers:

(9,2), (2,3), (8,6)

(-4,9), (-3,2), (-6,8)

No, the answer is incorrect. Score: 0





Announcements

About the Course

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1 point

Unit 6 - Week 04

Assignment 04 The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. 1) In CNC turning, the tool and the workpiece rotates, translates translates, rotates rotates, rotates translates, rotates No, the answer is incorrect. Score: 0 Accepted Answers: translates, rotates rotates, rotates rotates, rotates translates, rotates rotates, rotates And the workpiece rotates, rotates rotates, rotates rotates, rotates rotates, rotates rotates, ranslates or rotates No, the answer is incorrect. Score: 0 Accepted Answers: rotates, rests	9 IST. 1 poin
1) In CNC turning, the tool and the workpiece rotates, translates translates, rotates translates, translates No, the answer is incorrect. Score: 0 Accepted Answers: translates, rotates 2) In CNC milling, the tool and the workpiece rotates, rests rests, rotates rests, rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	
rotates, translates translates, rotates rotates, rotates translates, translates No, the answer is incorrect. Score: 0 Accepted Answers: translates, rotates 2) In CNC milling, the tool and the workpiece rotates, rests ests, rotates rests, rotates rotates, also rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	
translates, rotates rotates, rotates translates, translates No, the answer is incorrect. Score: 0 Accepted Answers: translates, rotates 2) In CNC milling, the tool and the workpiece rotates, rests rests, rotates rests, rotates rotates, also rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	1 poi
rotates, rotates translates, translates No, the answer is incorrect. Score: 0 Accepted Answers: translates, rotates 2) In CNC milling, the tool and the workpiece rotates, rests rests, rotates rests, rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	1 poi
No, the answer is incorrect. Score: 0 Accepted Answers: translates, rotates 2) In CNC milling, the tool and the workpiece rotates, rests rests, rotates rotates, also rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	1 poi
Score: 0 Accepted Answers: translates, rotates 2) In CNC milling, the tool and the workpiece rotates, rests rests, rotates rotates, also rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	1 poi
translates, rotates 2) In CNC milling, the tool and the workpiece rotates, rests rests, rotates rotates, also rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	1 poi
rotates, rests rests, rotates rotates, also rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	i poi
rests, rotates rotates, also rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	
rotates, also rotates translates, translates or rotates No, the answer is incorrect. Score: 0 Accepted Answers:	
No, the answer is incorrect. Score: 0 Accepted Answers:	
Score: 0 Accepted Answers:	
Accepted Answers:	
3) The type of milling machine used for the operation primarily depends on the tolerance and weight of the workpiece.	1 poir
○ True	
Score: 0	
True	
4) Arrange the tool material in the ascending order of toughness:	1 poir
HSS < Cemented Carbide < Coated Carbides < Ceramics	
Ocated Carbides< Cemented carbides< Ceramics < HSS	
Cemented carbides < Coated Carbides < HSS < Ceramics	
Score: 0	
Ceramics < Coated Carbides < Cemented Carbide < HSS	
5) Automatic pallet changer is holding device.	1 poir
Otool	
workpiece	
O machine	
O All of these	
Score: 0	
Accepted Answers: workpiece	
6) In the ISO signature of tungsten carbide inserts "S B M G 22 04 12", what does S and M signifies?	1 po
Insert type & insert shape	
Insert type & tolerance	
Insert shape & tolerance Tolerance & insert type	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
Insert shape & tolerance	
7) During the machining process, the retention knob in the top of the tool assembly is used for clamping and releasing purpose.	1 poi
○ True	
False	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
nuc	
	True False No. the answer is incorrect. Society O Accepted Answers: True 4) Arrange the tool material in the ascending order of toughness: HSS < Cemented Carbides < Coated Carbides < Ceramics Coated Carbides < Cemented carbides < Ceramics Coated Carbides < Cemented Carbides < Ceramics Ceramics < Coated Carbides < Cemented Carbides < Ceramics Ceramics < Coated Carbides < Cemented Carbide < HSS No. the answer is incorrect. Society O Accepted Answers: Ceramics < Coated Carbides < Cemented Carbide < HSS 5) Automatic pallet changer is holding device. tool workpiece machine All of these No. the answer is incorrect. Society O Accepted Answers: workpiece 6) In the ISO signature of tungsten carbide inserts "S B M G 22 04 12", what does S and M signifies? Insert type & insert shape Insert type & insert shape Insert type & loierance Insert shape & folerance Tolerance & Insert type No. the answer is incorrect. Society O Accepted Answers: Insert shape & tolerance Insert shape & to

revolution of the spindle. In one reading, the encoder generated 240 pulses in a period of 0.50 sec. What is the rotational speed of the spindle?

9) The step angle of a stepper motor = 1.2 degrees. The motor shaft is to rotate through 20 complete revolutions at an angular velocity of 15 rad/sec.

360 rev/min

400 rev/min

480 rev/min

Accepted Answers: 480 rev/min

7000 pulses

06000 pulses

5000 pulses

3600 pulses

Accepted Answers:

6000 pulses

24

○ 25

28

29

No, the answer is incorrect. Score: 0

No, the answer is incorrect.

Accepted Answers:

10) What does 11101 mean in binary?

No, the answer is incorrect.

Determine the required number of pulses.

0 8 rev/min

Score: 0

Course outline

course work?

Week 00

Week 01

Week 02

Week 03

Week 04

Week 05

Lecture 19, CNC Part

Lecture 20, CNC Part

Lecture 21, CNC Part

Lecture 22, CNC Part

Janakarajan Ramkumar

Janakarajan Ramkumar

Janakarajan Ramkumar

Janakarajan Ramkumar

Quiz : Assignment 05

Computer Integrated

Feedback

Week 06

Week 07

Week 08

Week 09

Week 10

Week 11

Week 12

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False

Score: 0

True

False

Score: 0

False

True

No, the answer is incorrect.

No, the answer is incorrect.

circular interpolation – clockwise

circular interpolation – counterclockwise

10) Which of the following code is used in thread cutting in turning?

Accepted Answers:

linear interpolation

No, the answer is incorrect.

No, the answer is incorrect.

Accepted Answers:

circular interpolation - clockwise

rapid feed

Accepted Answers:

Score: 0

G32

G89

G20

G74

Score: 0

G32

Automatically Programmed Tool is a low-level computer programming language.

During the execution of a CNC part program block N020 G02 X45.0 Y25.0 R5.0 the type of tool motion will be

Accepted Answers:

Manufacturing :Week 05

Solution: Assignment 05

Programming (part 1 of 4), Dr.

Programming (part 2 of 4), Dr.

Programming (part 3 of 4), Dr.

Programming (part 4 of 4), Dr.

Mentor

1 point

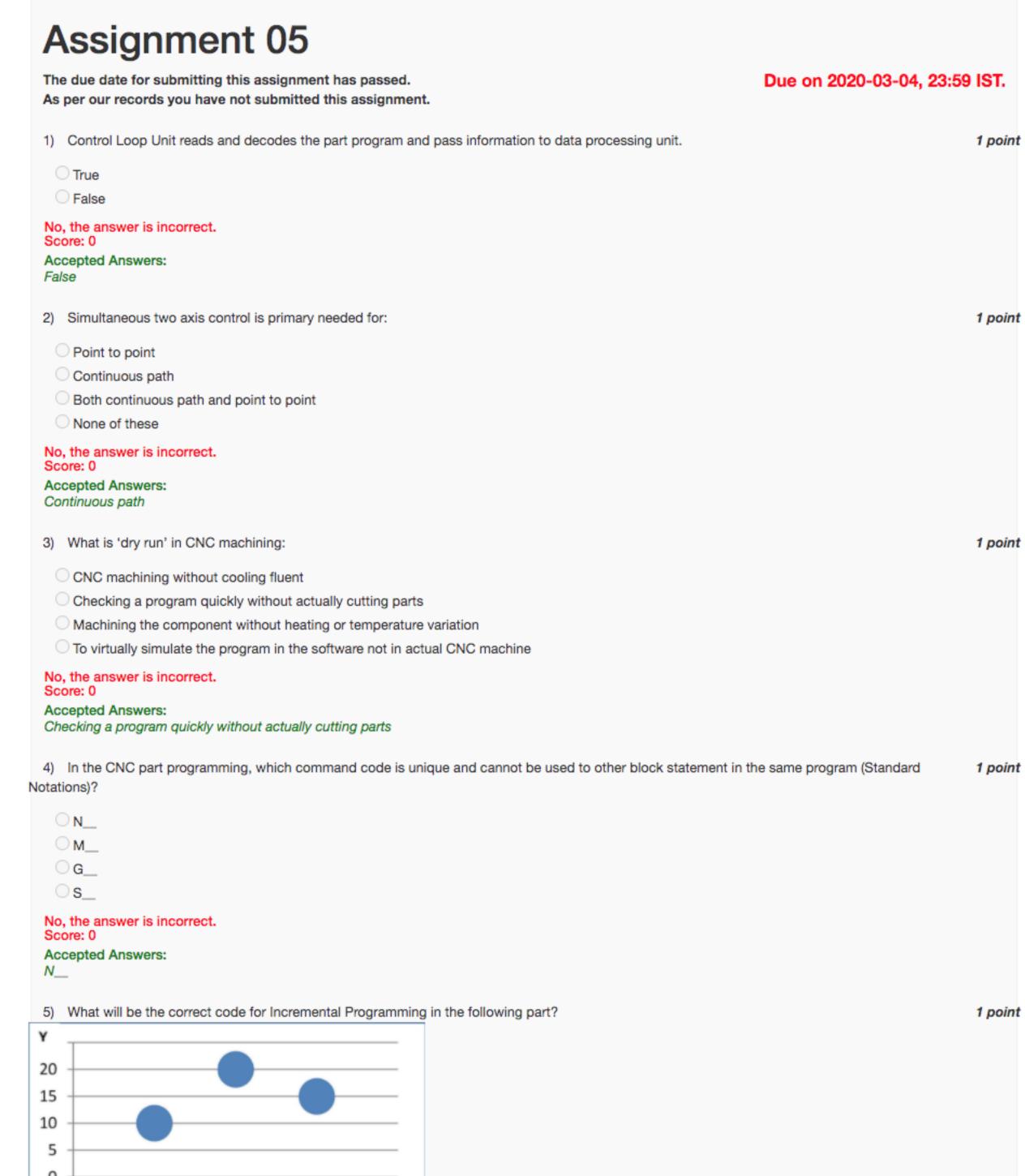
1 point

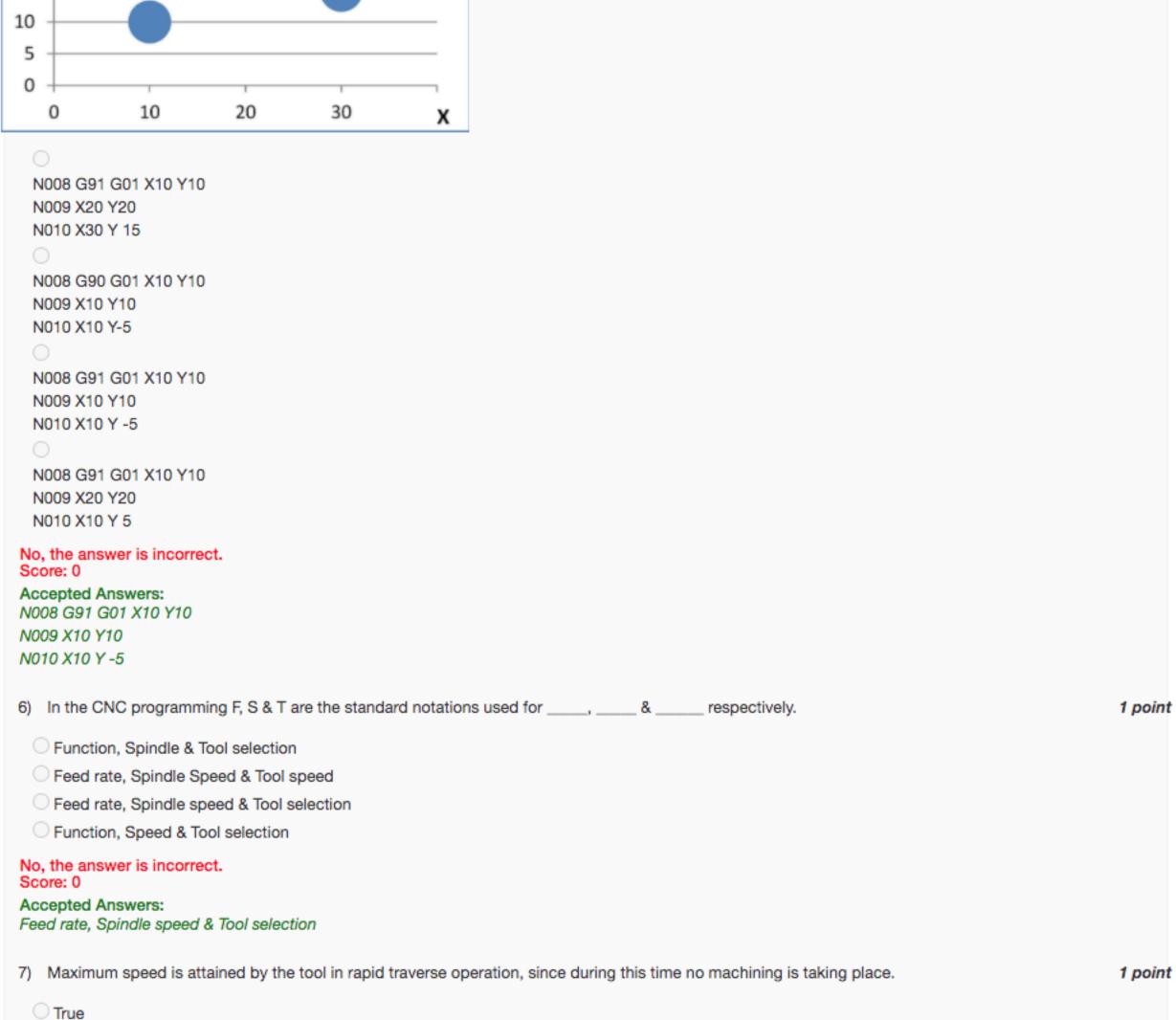
1 point

Unit 7 - Week 05

How does an NPTEL online

NPTEL » Computer Integrated Manufacturing









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Unit 8 - Week 06

Course outline	Assignment 06	
How does an NPTEL online course work?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	on 202
Week 00	In the SolidWorks 2018, is enabled when a sketch such as circle or rectangle is selected from the tab.	
Week 01	Feature Manager	
Week 02	O Property Manager	
Week 03	Configuration Manager None of these	
	No, the answer is incorrect.	
Week 04	Score: 0 Accepted Answers:	
Week 05	Property Manager	
Week 06	Linear-sweep sweeps a cross section along a straight line.	
Lecture 23, Laboratory	○ True	
Demonstration, Computer	○ False	
Aided Design (part 1 of 2), Dr. Amandeep Singh	No, the answer is incorrect.	
	Score: 0	
 Lecture 24, Laboratory Demonstration, Computer 	Accepted Answers: True	
Aided Design (part 2 of 2), Dr.		
Amandeep Singh	3) In surface modelling, the changes are easy to implement because they are not parametric.	
Lecture 25, CAM softwares,		
Dr. Amandeep Singh	○ True	
	○ False	
Lecture 26, Laboratory Demonstration, Computer	No, the answer is incorrect.	
Aided Manufacturing (part 1 of	Score: 0	
2), Dr. Amandeep Singh	Accepted Answers: False	
Lecture 27, Laboratory		
Demonstration, Computer	4) Fillet in SolidWorks provide 'curved' smoothness to the edges.	
Aided Manufacturing (part 2 of		
2), Dr. Amandeep Singh	○ True	
Quiz : Assignment 06	○ False	
Computer Integrated	No, the answer is incorrect. Score: 0	
Manufacturing :Week 06	Accepted Answers:	
Feedback	True	
Solution: Assignment 06	E) Which of the following and in word for (One least ONE)	
	5) Which of the following code is used for 'Coolant ON'?	
/eek 07	○ G40	
look 00	○ G42	
Veek 08	○ M08	
eek 09	○ M09	
/I- 40	No, the answer is incorrect.	
/eek 10	Score: 0 Accepted Answers:	
/eek 11	M08	
/eek 12	6) hole is used to provide the space for the screw head.	
	○ Blind	
ownload Videos		
ad Tanana and a ta	○ Through	
xt Transcripts	O Counterbore	
	O None of these	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: Counterbore	

20-03-11, 23:59 IST. 1 point 1 point 1 point 1 point 1 point 1 point 7) _____ software is a system of systems that includes ERP module 1 point MasterCAM PowerMill Solidworks CAM Siemens PLM No, the answer is incorrect. Score: 0 Accepted Answers: Siemens PLM Lead-in method, the tool moves in both x and z directions. 1 point Plunge Ramp O Drill All of these No, the answer is incorrect. Score: 0 Accepted Answers: Ramp are used in CNC machines with pneumatic controls to switch ON/OFF the air flow. 1 point Solenoid valves ○ LVDT Hydraulic valves Hydraulic motors No, the answer is incorrect. Score: 0 Accepted Answers: Solenoid valves 10) Minimum feed rate is given for _____ portion of the CNC code generation. 1 point plunging orapid cutting All of these No, the answer is incorrect. Score: 0 Accepted Answers: plunging



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1 point

1 point

1 point

Unit 9 - Week 07

outline	Assignment 07	
an NPTEL online ork?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2020-03-18, 23:	59 IST.
	Heat treatment and annealing of the processed parts are generally considered as in process planning.	1 point
	primary or basic operations	,
	secondary operations	
	property enhancing operations	
	O finishing operation No, the answer is incorrect.	
	Score: 0 Accepted Answers:	
	property enhancing operations	
	2) In an analogy, 'Route sheet: Process Planner:: Engineering Drawing: Product Designer'.	1 point
	○ True	
	False	
y ,	No, the answer is incorrect. Score: 0	
ied of 2),	Accepted Answers: True	
nar	2) For eccephic line production, process planning should ecceptially include:	d naint
ed of 2),	For assembly line production, process planning should essentially include:	1 point
or 2), ar	Therbligs Line balancing	
	Micromotion study	
	O All of these	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: Line balancing	
	In a variant Computer Aided Process planning, the initial challenge is faced in developing the:	1 point
	variation in the existing process	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	implementation in factory level	
	material and worker handling	
	O group technology classification No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: group technology classification	
	5) In the part family classification for employing group technology, the parts must be exactly similar with each other to group together in the same	1 point
	family.	
	O True	
	O False No, the answer is incorrect.	
	Score: 0 Accepted Answers:	
	False	
	In a cellular layout based on group technology, each cell specializes in producing	1 point
	multiple number of part families	
	mass customized products	
	one or limited number of part families	
	O All of these No, the answer is incorrect	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: one or limited number of part families	
	7) Classification and coding system in group technology are based upon:	1 point
	Part design attributes only	. ponn
	Part design attributes only Part manufacturing attributes only	
	Both part design and manufacturing attributes	
	Neither part design nor manufacturing attributes	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: Both part design and manufacturing attributes	

8) Group Technology may not be suitable for a factory with a large variety of products.

9) In Opitz code: 23451 2306, what does the first and the last number signify?

10) In DCLASS Coding System, what does the first three digits signify?

True

False

Score: 0

Score: 0

Size

Score: 0

Basic shape

Material

Precision

Basic shape

Accepted Answers:

No, the answer is incorrect.

True

No, the answer is incorrect.

Part class, Accuracy

Part Class, Material

Dimensions, Material

Main shape, Accuracy

No, the answer is incorrect.

Accepted Answers: Part class, Accuracy

Accepted Answers:

Course outline

course work?

Week 00

Week 01

Week 02

Week 03

Week 04

Week 05

Week 06

Week 07

Week 08

Lecture 31, Flexible

O Lecture 32, Robotics, Dr. Janakarajan Ramkumar

Lecture 33, Programmable

 Lecture 34, Automatic Identification and Data

Ouiz: Assignment 08

Week 09

Week 10

Week 11

Week 12

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Solution: Assignment 08

How does an NPTEL online



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1 point

1 point

Unit 10 - Week 08

ourse outline	Assignment 08	
w does an NPTEL online urse work?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	9 IST.
ek 00	What is the acronym of SCARA robot:	1 poin
ek 01		i poiii
	Sustainable Compliance Armor of Robotic Anatomy Selective Compliance Arm for Robot Assembly	
ek 02	Selective Comfort Attribute of Robot Assembly	
ek 03	Selection Comfort Attribute of Robotic Anatomy	
ek 04	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
ek 05	Selective Compliance Arm for Robot Assembly	
ek 06	2) The general acronym used to denote 'revolving joint' in Robotics is:	1 poin
ek 07	○R	
	От	
ek 08	○v ○H	
Lecture 31, Flexible Manufacturing System, Dr.	No, the answer is incorrect.	
Janakarajan Ramkumar	Score: 0	
Lecture 32, Robotics, Dr.	Accepted Answers: V	
Janakarajan Ramkumar		
.ecture 33, Programmable .ogic Controller, Dr.	RFID can store lesser data and are economical than Bar codes.	1 poin
Janakarajan Ramkumar	○ True	
ecture 34, Automatic	○ False	
dentification and Data Capture, Dr. Amandeep Singh	No, the answer is incorrect. Score: 0	
Quiz : Assignment 08	Accepted Answers: False	
Computer Integrated Manufacturing: Week 8 Feedback	The three dimensional space within which the robot can manipulate the end of the wrist is: 3D space	1 poin
Solution: Assignment 08	○ Work envelope	
ek 09	○ Working system	
	O Degree of freedom	
ek 10	No, the answer is incorrect. Score: 0	
ek 11	Accepted Answers: Work envelope	
ek 12	E) In the DLC the main function of the conduct data coming from the input modules, make decisions based on program and return books.	d maim
unland Midana	 In the PLC, the main function of is to analyze data coming from the input modules, make decisions based on program and return back signal to the output modules. 	i poin
vnload Videos	○ i/o modules	
t Transcripts	O micro processor	
	O field sensors	
	O field output devices	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: micro processor	
	mero processor	
	6) Solenoids, lamps, motors in PLC are primarily connected to:	1 poin
	Analog output	
	O Digital output	
	O Analog input	
	O Digital input	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: Digital output	
	 Customized flexibility, scalability, modularity, convertibility, integrate ability, etc. are the features of: 	1 poin
		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Flexible Manufacturing System Agile Manufacturing	
	Reconfigurable Manufacturing System	
	O None of these	
	No, the answer is incorrect.	
	Score: 0 Accepted Answers: Reconfigurable Manufacturing System	
	8) What best explains Flexible Manufacturing Systems (FMS)?	1 poin
	FMS moves materials between operations	
	FMS moves and manipulates products, parts or tolls	
	FMS completely manufactures a range of components without significant human intervention during the processing	
	FMS co-ordinates the whole process of manufacturing and manufactures a part, component or product	

No, the answer is incorrect. Score: 0

Accepted Answers:

9) Active RFID tags:

FMS completely manufactures a range of components without significant human intervention during the processing

 Have their own battery power packs Possess a larger memory capacity and longer communication range Have higher cost and used for higher value items

No, the answer is incorrect. Score: 0 Accepted Answers:

All of these

10) Which of the following can be the output of PLC?

All of these

Relay coils

Solenoids 3) Indicators

Motors 5) Lamps

Alarms

Only 3), 4), 5) and 6) Only 1), 2), 3) and 5)

Only 1), 2), 3) and 4)

All the 1), 2), 3), 4), 5), and 6)

No, the answer is incorrect. Score: 0 Accepted Answers:

All the 1), 2), 3), 4), 5), and 6)



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Unit 11 - Week 09

e outline	Assignment 09
PTEL online	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.
	 Measurement is a procedure in which a/anquantity is compared to a/an standard, using an accepted units.
	known , known
	unknown, unknown unknown, known
	O known, unknown
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	unknown, known
	 Typical resolution in a Co-ordinate Measuring Machine (CMM) is greater than 30 micrometers.
	○ True ○ False
	No, the answer is incorrect.
	Score: 0 Accepted Answers:
	False 3) Length, mass, temperature, force, current, intensity and time are the seven basic quantities used in the measurement.
	○ True ○ False
	No, the answer is incorrect. Score: 0 Accepted Answers: False
	4) The description of the repeatability of an experiment process is:
	Accuracy Precision Resolution
	Reliability
	No, the answer is incorrect. Score: 0
	Accepted Answers: Precision
	5) In analog and digital measuring instruments, the number output response is and respectively, within its
	of finite, infinite
	ofinite, finite
	infinite, infinite
	O infinite, finite
	No, the answer is incorrect. Score: 0 Accepted Answers:
	infinite, finite
	Direct computer control CMM is generally used for measuring and .

Accepted Answers: 8

Δ	ssignment 09	
	e due date for submitting this assignment has passed. Due on 2020-04-01, 23:59 per our records you have not submitted this assignment.	IST.
No Sc. Ac	Measurement is a procedure in which a/anquantity is compared to a/an standard, using an accepted and consistent system of known , known unknown, unknown unknown known known known known the answer is incorrect. In a standard, using an accepted and consistent system of the standard procedure in which a/anquantity is compared to a/an standard, using an accepted and consistent system of the standard procedure in which a/anquantity is compared to a/an standard, using an accepted and consistent system of the standard procedure in which a/anquantity is compared to a/an standard, using an accepted and consistent system of the standard procedure in which a/anquantity is compared to a/an standard, using an accepted and consistent system of the standard procedure in which a/an standard, using an accepted and consistent system of the standard procedure in which a/an standard procedure in wh	1 point
No So	Typical resolution in a Co-ordinate Measuring Machine (CMM) is greater than 30 micrometers. True False the answer is incorrect. ore: 0 cepted Answers:	1 point
No Sc	Length, mass, temperature, force, current, intensity and time are the seven basic quantities used in the measurement. True False the answer is incorrect. True True True True True True True Tru	1 point
4)	cepted Answers: se The description of the repeatability of an experiment process is: Accuracy Precision Resolution Reliability , the answer is incorrect.	1 point
Sca Ac Pres	cepted Answers: cicision In analog and digital measuring instruments, the number output response is and respectively, within its operating range. finite, infinite finite, finite infinite, infinite infinite, infinite	1 point
No Sci Ac infi	the answer is incorrect. cepted Answers: nite, finite Direct computer control CMM is generally used for measuring and high part variety, low part quantity low part variety, high part quantity high part variety, high part quantity All the these	1 point
Ac hig	the answer is incorrect. ore: 0 cepted Answers: h part variety, low part quantity CMM can be said to be an electromechanical system designed to perform coordinate metrology. True False the answer is incorrect. ore: 0	1 point
8)	Generally, a contact is there between the spherical tip probe of CMM and the measured surface. line surface point None of these , the answer is incorrect.	1 point
Ac poi	ore: 0 cepted Answers: int Arrange the steps involved in "Machine vision" for the quality check in correct order.	1 point
No Sc.	A. Image processing, B. Feature extraction, C. Decision Making, D. Image Acquisition A.D,B,C D,B,A,C D,A,B,C A,B,D,C the answer is incorrect. ore: 0 cepted Answers: A,B,C Number of points to locate a cylinder in the given CMM demonstration are:	1 point
No	4 6 8 10 , the answer is incorrect. ore: 0	

Progress



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Unit 12 - Week 10

Course outline	Assignment 10
How does an NPTEL online	Assignment 10
course work?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.
Week 00	1). Deveree Engineering is a present of redesigning an existing product to improve and breaden its functions, add quality
Week 01	Reverse Engineering is a process of redesigning an existing product to improve and broaden its functions, add quality
	○ True ○ False
Week 02	No, the answer is incorrect.
Week 03	Score: 0 Accepted Answers:
Week 04	True
Week 05	 The rapid prototyping classification, based on the form of the starting raw material are Liquid-based, Powder-based, Based.
Week 06	○ True
	○ False
Week 07	No, the answer is incorrect.
Week 08	Score: 0
W1-00	Accepted Answers: False
Week 09	2) In a Solid based Banid Manufacturing process, the material is in the form of wire appels and Shoots
Week 10	 In a Solid based Rapid Manufacturing process, the material is in the form of wire spools and Sheets.
 Lecture 38, Rapid 	○ True
Manufacturing (part 1 of 2), Dr. Janakarajan Ramkumar	○ False
-	No, the answer is incorrect. Score: 0
 Lecture 39, Rapid Manufacturing (part 2 of 2), 	Accepted Answers: True
Dr. Janakarajan Ramkumar	nue
Clecture 40, Laboratory	4) In which manufacturing process, the use of tooling of the product is minimal?
demonstration, Rapid Manufacturing (part 1 of 2),	Subtractive Manufacturing
Dr. Amandeep Singh	Rapid Manufacturing
O Lecture 41, Laboratory	Hybrid Manufacturing
demonstration, Rapid	O All of these
Manufacturing (part 2 of 2), Dr. Amandeep Singh	No, the answer is incorrect.
	Score: 0 Accepted Answers:
Lecture 42, Laboratory Demonstration, CAD using	Rapid Manufacturing
Fusion 360, an introduction,	5) Which manufacturing process is limited to large volume production with simple part design?
Dr. Amandeep Singh	
Lecture 43, Laboratory Demonstration, CAD using	Smart Manufacturing
Fusion 360, Rendering and	Rapid Manufacturing
3D printing, Dr. Amandeep	Subtractive Manufacturing
Singh	O All of these
Ouiz : Assignment 10	No, the answer is incorrect. Score: 0
Computer Integrated Manufacturing: Week 10	Accepted Answers: Subtractive Manufacturing
Manufacturing: Week 10 Feedback	Contractor in and actioning
O Solution: Assignment 10	6) In Rapid Manufacturing, STL file format stands for:
Week 11	Standardized Tooling Library
TOOK 11	Standard Training Language
Week 12	Standardized Tessellation Library
Download Videos	Standard Tessellation Language
Download videos	No, the answer is incorrect. Score: 0
Text Transcripts	Accepted Answers:

ue on 2020-04-08, 23:59 IST. y and to increase the useful life. 1 point Solid-based and Gaseous 1 point 1 point 1 point 1 point 1 point Accepted Answers: Standard Tessellation Language 7) Stereolithography is a rapid prototyping process, for fabricating a solid plastic parts out of a liquid polymer using a directed ultraviolet 1 point beam to solidify the polymer. heat-sensitive, laser photo-sensitive, light photo-sensitive, laser heat-sensitive, light No, the answer is incorrect. Score: 0 Accepted Answers: photo-sensitive, laser 8) Rapid Manufacturing techniques are economical when more prototype needs to built for the 1 point component. highly, different highly, same not, different onot, same No, the answer is incorrect. Score: 0 Accepted Answers: not, same 9) The Rapid Manufacturing characteristic in question 8 leads us to a new dimension of "Design for Manufacturing" rather than the conventional 1 point "Manufacturing for Design" philosophy. True False No, the answer is incorrect. Score: 0 Accepted Answers: False 10) _ is generally only one layer and on the outside and in contact with the print in 3D printing to allow for better adhesion to the printing surface. 1 point Raft Brim Skirt None of these No, the answer is incorrect. Score: 0 Accepted Answers: Brim





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Progress Mentor

1 point

1 point

Unit 13 - Week 11

ourse outline	Assignment 11	
w does an NPTEL online urse work?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	IST.
eek 00	 Material handling in Industry is estimated to represent 2-4 % of total manufacturing labor cost. 	1 poi
eek 01	True	r pon
eek 02	○ False	
56K 02	No, the answer is incorrect.	
eek 03	Score: 0 Accepted Answers:	
eek 04	False	
ek 05	 According to material handling principles, gravity must not be used for transportation of goods inside the industry. 	1 poi
ek 06	○ True ○ False	
k 07	No, the answer is incorrect. Score: 0	
k 08	Accepted Answers: False	
k 09		1 00
: 10	According to material handling principles, rehandling and back tracking of materials should be indulged	1 poi
	avoided	
11	O Both of these	
ture 44, Material Handling, Janakarajan Ramkumar	O None of these	
ure 45, Laboratory	No, the answer is incorrect. Score: 0	
onstration, Plant ulation software (part 1 of 0r. Amandeep Singh	Accepted Answers: avoided	
ure 46, Laboratory	 Increasing the storage capacity is also an objective of material handling. 	1 po
onstration, Plant	○ True	
lation software (part 2 of r. Amandeep Singh	○ False	
re 47, Laboratory	No, the answer is incorrect. Score: 0	
enstration, Plant ation software (part 3 of Amandeep Singh	Accepted Answers: True	
: Assignment 11	5) In material handling, 'unit load' is a single entity in a lot that is moving from one point to another.	1 poi
nputer Integrated	○ True	
ufacturing: Week 11 back	○ False	
ion: Assignment 11	No, the answer is incorrect. Score: 0	
	Accepted Answers: False	
2		
ad Videos	 An Automated Guided Vehicle System (AGVS) is a material handling system that isoperated, vehicles, guided along defined pathways. 	1 po
scripts	independently, self-propelled	
	dependently, human-propelled	
	independently, human-propelled	
	Odependently, self-propelled	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	independently, self-propelled	
	7) In a product manufacturing industry, which type of material handling equipment will be preferred to be used for transportation in fixed straight path continuously, for large number of units?	1 pc
	○ AGV	
	Cranes & hoists	
	Oconveyors	
	O Industrial trucks	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	Conveyors	
	8) & are used for horizontal & vertical movement of materials in the industry respectively.	1 poi
	omonorails, conveyors	
	onveyors , AGVs	
	O AGVs, cranes	

cranes, hoists

Accepted Answers:

Technomatix

Teamcenter

None of these

Accepted Answers: Teamcenter

True

False

True

No, the answer is incorrect. Score: 0

No, the answer is incorrect. Score: 0

Accepted Answers:

cranes , hoists

 \bigcirc NX

No, the answer is incorrect. Score: 0

9) In Siemens PLM software, _____ covers the Enterprise Resource Planning activities.

10) Triangular distribution is also known as Lack of Knowledge distribution.





O Industry 1.0

Olndustry 2.0

Olndustry 3.0

O Industry 4.0

Accepted Answers: Industry 3.0

Internet of Things

Cloud Computing

No, the answer is incorrect. Score: 0

Big Data

All of these

Accepted Answers: Cloud Computing

Virtual Reality

Mixed Reality

Accepted Answers: Augmented Reality

Invested Reality

O Augmented Reality

No, the answer is incorrect. Score: 0

No, the answer is incorrect. Score: 0

Announcements

About the Course

Ask a Question

Progress

Mentor

1 point

1 point

Unit 14 - Week 12

Course outline	Assignment 12	
How does an NPTEL online course work?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	9 IST.
Week 00	The study of the modelling of human mental functions by computer programs is known as:	1 point
Week 01	Machine Learning	r point
Week 02	O Deep Learning	
Week 03	Artificial Intelligence Big Data	
Week 04	No, the answer is incorrect. Score: 0	
Week 05	Accepted Answers: Artificial Intelligence	
Week 06	2) Which is the most appropriate reason for Artificial Intelligence not being very popular earlier in the Industry?	1 point
Week 07	Availability of large human labor	
Wook 00	Absence of large amount of data	
Week 08	Complex parts were not manufactured before All of these	
Week 09	No, the answer is incorrect.	
Week 10	Score: 0 Accepted Answers:	
Week 11	Absence of large amount of data	
Week 12	 The primary aim of Machine Learning is to allow the computers learn automatically without human intervention or assistance and adjust actions accordingly. 	1 point
 Lecture 48, Computers in 	○ True	
Manufacturing Industry, current scenario (part 1 of 3),	○ False	
Dr. Janakarajan Ramkumar	No, the answer is incorrect.	
 Lecture 49, Computers in Manufacturing Industry, 	Score: 0 Accepted Answers: True	
current scenario (part 2 of 3), Dr. Janakarajan Ramkumar		
·	 Cyber security has become a critical component of effective management in manufacturing to avoid breach. 	1 point
 Lecture 50, Computers in Manufacturing Industry, current scenario (part 3 of 3), 	○ True ○ False	
Dr. Amandeep Singh	No, the answer is incorrect.	
Ouiz : Assignment 12	Score: 0 Accepted Answers:	
Computer Integrated	True	
Manufacturing: Week 12 Feedback	5) In Machine Learning process, grouping is done based on the similarities or anomalies and learning takes place.	1 point
O Solution: Assignment 12	Supervised	
Download Videos	unsupervised	
Download Videos	reinforcement	
Text Transcripts	O All of these	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	unsupervised	
	Deep Learning is part of Machine Learning methods based on artificialnetworks.	1 point
	machine	
	○ cross	
	neural	
	learning	
	No, the answer is incorrect.	
	Score: 0 Accepted Answers:	
	neural	
	7) requires comprehensive digitization of the horizontal and vertical value chain in the whole production process for proper implementation	. 1 point
		. point
	Cloud Computing	
	O Industry 4.0	
	Agile Manufacturing System Computer Numerical Control	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: Industry 4.0	
	started with the advent of electronics and information technology.	1 point

is on-demand availability of computer system resources on the internet, especially data storage and accessing power.

10) ______ technology takes an existing real environment and add layers of virtual information on top of it.