Laxdu Singh Charitable Trust's (eRegd.)
THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY
Autonomous College Affiliated to University of Mumbai
Approved by All India Council for Technical Education(AICTE) and Government of Maharashtra(GoM)
Conferred Autonomous Status by University Grants Commission (UGC) for 10 years w.e.f. A.Y 2019-20
Amongst Top 200 Colleges in the Country Ranked 193rd in NIRF India Ranking 2019 in Engineering College category
• ISO 9001:2015 Certified • Programmes Accredited by National Board of Accreditation (NBA), New Delhi
• Institute Accredited by National Assessment and Accreditation Council (NAAC), Bangalore
Estd. in 2001
Website : www.tcetmumbai.in

IN-SEMESTER EXAMINATION (ISE-I) DECEMBER, 2022
FE (Semester-I) CBCGS-HME 2020
Workshop & Manufacturing Practices – I

Branch: COMP, CIVIL, CS&E, E&CS, IOT, AI&DS
Div.: ALL
Duration: 45 Minutes

Date: 26 / 12 /2022
Timing: 01.30 PM to 02:15 PM
Maximum Marks: 10

Instructions –

1. All questions are compulsory.
2. Assume suitable data wherever necessary and state the assumptions made.
3. Diagrams / sketches should be given wherever necessary.
4. Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
5. Figures to the right indicate full marks.

Q.1		**Solve any 2 Questions.**	**Marks**
	a.	With neat label draw Injection molding	02
	b.	What is machining? Explain any one machining process.	02
	c.	Write a short note on Planning Tools	02
Q.2		**Solve any 1 Question.**	
	a.	Explain the casting process with all the components and steps	03
	b.	Illustrate Resistant welding with a neat sketch.	03
Q.3		**Solve any 1 Question.**	
	a.	List all Advanced Manufacturing Methods & explain any one	03
	b.	What are cutting tools? Explain various types of saw	03

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IN-SEMESTER EXAMINATION (ISE-II) JANUARY, 2023
FE (Semester-I) CBCGS-HME 2020
Workshop & Manufacturing Practices – I

Div.: Group I (CIVIL, CS&E, COMP, AI&DS, E&CS, IoT)
Duration: 45 Minutes

Date: 24/01/2023
Timing: 01.30 PM to 02:15 PM
Maximum Marks: 10

Instructions –

1. All questions are compulsory.
2. Assume suitable data wherever necessary and state the assumptions made.
3. Diagrams / sketches should be given wherever necessary.
4. Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
5. Figures to the right indicate full marks.

Q.1		**Solve any 2 Questions.**	Marks
	a.	Enlist the application of CNC machining	02
	b.	Explain benefits of Additive Manufacturing	02
	c.	With a neat sketch, explain weld terminology for fillet weld	02
Q.2		**Solve any 1 Question.**	
	a.	Enlist glass strength testing methods. Explain any one with neat sketch.	03
	b.	Explain Selective Laser sintering (SLS) with a neat labelled diagram.	03
Q.3		**Solve any 1 Question.**	
	a.	Differentiate between Gas welding and Arc welding.	03
	b.	Write program for drilling a hole at the centre of the rectangular plate of dimensions(mm) 40 x 30 x 10 (l x b x h) with relative positioning.	03

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End Semester Examination, February 2023

F. E. /F.T. SEMESTER I (CBCGS-HME 2020)

Branch:	**Group 1 (CIVIL, CS&E, COMP, AI&DS, E&CS, IoT)**	**Q.P. Code:**	**R1G10053**
Subject:	**Workshop & Manufacturing Practices-I**	**Duration:**	**1 hours**
Subject Code:	**ESC105**	**Max.Marks:**	**30**

Instructions:
1. All sections are compulsory
2. Figures to the right indicate full marks.
3. Assume suitable data if necessary and state the assumptions clearly.

Section-I Short Answer Question(Answer any 05 questions out of 06) (10 Marks)
(Fundamental, Core Types)

Q. No.	Short Answer Question(Answer any 05 questions out of 06)	Marks	CO	RBT Level	PI
1	Enlist any four CNC codes	2	CO4	L2	2.1.2
2	Enlist any four Measuring tools	2	CO2	L2	2.1.2
3	Enlist different types of gas flames	2	CO5	L2	2.1.2
4	Differentiate between Thermosetting and Thermoplastic (Any two).	2	CO3	L2	2.1.2
5	State any two examples for hazards in hand tools	2	CO2	L1	2.1.2
6	What is difference between drilling, boring, reaming operations	2	CO1	L1	2.1.2
Section-II	**Descriptive Answer Question (Answer any 02 out of 03) (10 Marks)** (Descriptive,Comprehension Types)				
1	State any five safe work practices in bench work and fitting shop.	5	CO2	L2	2.1.2
2	Explain Blow Molding process with neat sketch	5	CO3	L1	1.4.1
3	Draw flow chart for steps involved in casting process	5	CO1	L2	3.2.1
Section-III	**Long Answer Question (Answer any 01 out of 02) (10 Marks)** (Application, Analytical, Evaluation, Design Type)				
1	What is non conventional machining? Explain any one method in detail	10	CO1	L2	1.4.1
2	Write program for drilling a hole at center of rectangular plate of dimension (80mm* 60mm* 40mm) (l*b*h) with absolute positioning	10	CO 4	L3	1.4.1