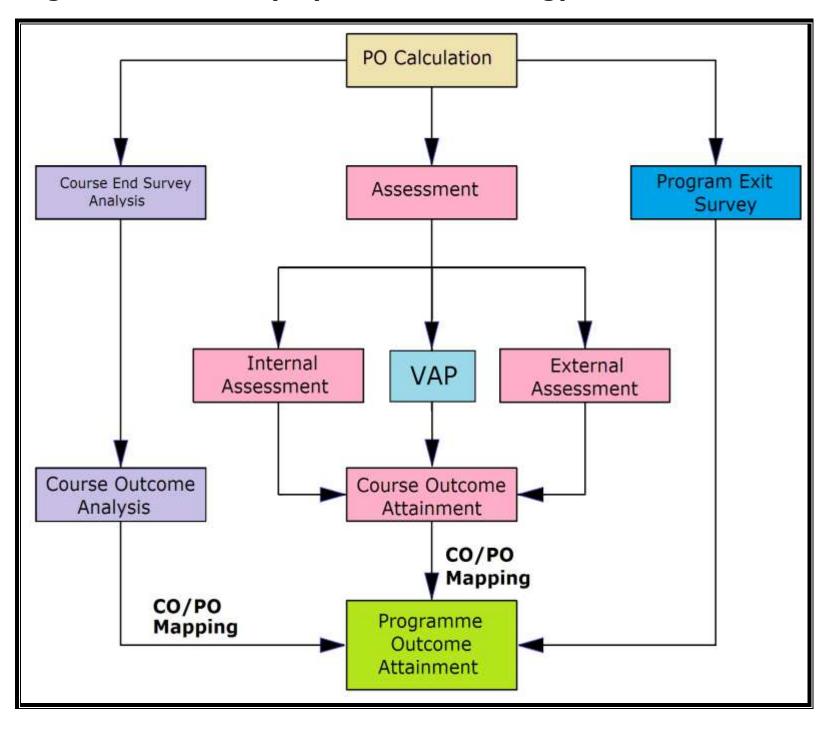
Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

- 1. Course End Survey
- 2. Course End Survey Analysis
- 3. Course Outcome Analysis through Internal Assessments
- 4. Course Outcome Analysis through External Assessments
- 5. PO Statement
- 6. Programme Exit Survey

DGCT Programme Outcome (PO) attainment strategy



Sample Course End Survey Analysis

Sub Code & Name: ME6503-DESIGN OF MACHINE ELEMENTS

Name of the Staff : Mr.N.PANNEERSELVAM SAP/Mech

Year & Section : III Year/ A

Regilation : 2013

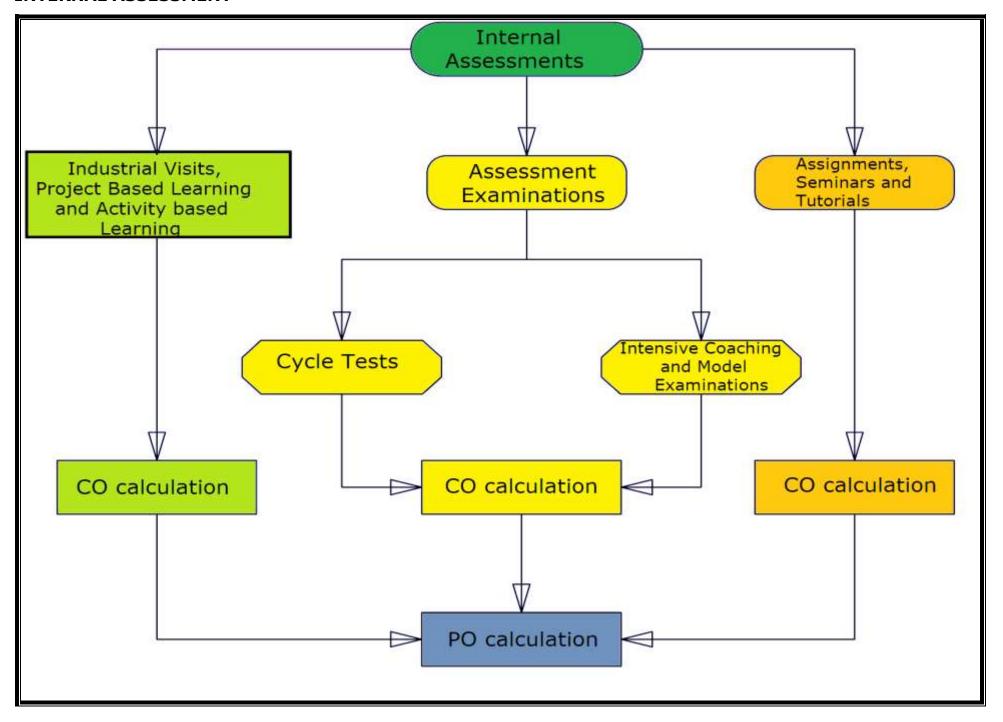
Consolidate Report

Co s	Course End Survey question	Mark s out of 4	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
CO1	1. Can you design the elements like hook? Crank shaft etc.,	3.3	3.3			3.3	3.3		3.3						3.3		3.3
COI	2. Can you design a component is under varying load?	5.5	٥.٥			3.3	5.5		5.5						5.5		3.3
CO2	3. Can you design the power transmissio n elements like shaft, coupling etc., used in industries?	3.0	3.0						3.0	3.0				3.0	3.0	3.0	3.0
CO3	4. Will you perform the Design & analysis of temporary and	3.0	3.0						3.0						3.0	3.0	3.0

	permanent joints?														
CO4	5. Are you confident about design & developmen t of Energy storing elements like springs, flywheel etc.,?	2.7	2.7	2.7	2.7			2.7			2.7		2.7	2.7	2.7
CO5	elements like bearing etc.,?	2.8	2.8				2.8	2.8	2.8		2.8	2.8	2.8	2.8	2.8
CO6	7. Will you follow the proper standards of design principle?	3.5													
	8. Use of Power Point Projector (PPT) is class room lecturing is effective and appropriate ?	3.0													
	9. The evaluation methods used in this course are fair and appropriate	3.2													
	10. There is close agreement	2.5													

between the course outcomes and what is actually covered															
Average	3.1	3.0	2.7	2.7	3.3	3.3	2.8	3.0	2.9		2.8	2.9	3.0	2.9	3.0
% of Attainment	76	74	67	67	81	81	71	74	73		69	73	74	72	74
% of Target	70	70	70	70	70	70	70	70	70		70	70	70	70	70
Justifiacation	+6	+4	-3	-3	+1	+1	+1	+4	+3		-1	+3	+4	+2	+4

INTERNAL ASSESSMENT





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Industrial Visit

Computer Science and Engineering Requistion for IV to the company

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY (Approved by AICTE and Affiliated to Anna University) Salem Bengaluru Highway (NH7), Sikkanampatty, Opp. Airport, Salem-636309, Tamilnadu Phone: 04290 233333 / Mail Id: dgctsalem@gmail.com "Institution established by India's Leading Engineering Consultants, Salem"

To

The Principal, Dhirajlal Gandhi College of Technology, Salem.

Sir,

Sub: To seek permission for Industrial visit - Reg.

We are organizing an industrial visit for our final year Computer Science and Engineering students to KGiSL, Coimbatore on 15/12/2017. The industrial visit would enable the students to get an industrial exposure. So I request you to permit the students for this industrial visit along with 5 faculty to take care of the students. Hereby I have enclosed all the documents regarding industrial visit.

Enclosure:

- Request letter to industry
- Confirmation Mail from industry
- List of students and Faculty
- Students Undertaking Form
- Students & Parents contact Details
- Tentative Plan

Thanking You,

Yours sincerely,

Date: 14/12/2017

IV Coordinator

Administrative Office: 2/6, Ranganathar Avenue, Narasodhipatti, Salem - 636004 Phone (0427) 2331219, Fax (0427) 2330565



Salem - 309

KG INFORMATION SYSTEMS PVT LTD KGBS/L

KG Campus, Thudiyalur Road, Saravanampatti, COIMBATORE -35
Phone: 0422 4419999, Extn-9967, 9042068633
(Authorized Training Partners for Oracle/Red Hat Linux/Cisco)

To

M.Parameswari, AP/CSE,

IV coordinator,

Dhirajlal Gandhi College of Technology.

alem.

Sub: Permission for your Visit

Respected Sir/Madam,

As per request, we permit the students from Dhirajlal Gandhi College of Technology to visit our premises on 15/12/2017, Friday between 12.00 pm to 1.00pm.

Regards

Rathan,

KGISL

9042068633.



Salem - 309



Approved by AICTE | Affiliated to Anna University, Chennai Opposite Salem Airport, Salem - 636 309. I Ph: 04290 233333





Salem - 309

Computer Science and Engineering Requistion for IV to the company

1 Gmail	Rubini rubini <rrubiniece88@gmail.co< th=""></rrubiniece88@gmail.co<>
vd: Reg - Industrial visit	
019	Gmail - Fwd: Reg - Industrial visit
Mobile No:+91 9916044809	
Land line : 0821 4002850 / 55	
KAYNES TECHNOLOGY INDIA PVT. LTD.	
23-25, Belagola Food Industrial Area.	
Metagalli PO, Mysore-570016.	

received this message by mistake, please re such a mistake does not occur in the future.	ply to this message and follow with its deletion, so that we can ensure
From: pravin asokan [mailto:pravinasokan1 Sent: 07 September 2019 PM 03:51 To: naresh@kaynestechnology.net Subject: Reg - Industrial visit	199@gmail.com]
We the students of Dhirajial Gandh Technology on saturday 14-09- 2019.	ni College of Technology would like to visit your company,KAYNES
There would be 35 visitors including	g 3 faculty members. We would like to visit in sector of Automotive.
Kindly grant permission for the visit	t.We look forward to your positive reply from your side.
Thanking You,	
	Yours Sincerely,
	Pravin M
Dos Donts For Factory Visit.pdf	



Salem - 309

Acceptance from the company

9/9/2019

Gmail - Fwd: Reg - Industrial visit



Rubini rubini <rrubiniece88@gmail.com>

Fwd: Reg - Industrial visit

1 message

pravin asokan cpravinasokan1199@gmail.com>
To: rrubiniece88@gmail.com

Mon, Sep 9, 2019 at 10:56 AM

Dear sir/madam

Based on your request and accepting to the terms, the Industrial visit to Kaynes Technology India Pvt Ltd, Mysore is confirmed.

We will be charge 100Rs per students

We are permitting Industrial Visit, to

KAYNES TECHNOLOGY INDIA PVT. LTD.,

23 -25, Belagola Food Industrial Area, Metagalli PO, Mysore - 570 016 India

The schedule is given below;

14/09/2019 - 11:30 AM - 12:30 PM - KAYNES TECHNOLOGY

The dos and don'ts of factory visit is also attached. You may strictly adhere to the timings above and rules and regulations mentioned in the attachment.

You can contact me in any of the numbers below for any clarification.

Thanks and Regards

Naresh K

https://mail.google.com/mail/u/0?ik=0e2c2c6e02&view=pt&search=all&permthid=thread-f%3A1644174326708244274&simpl=msg-f%3A16441743267...



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INDUSTRIAL VISIT-IV ECE B

Company Name: Kaynes Technology India Private Ltd

Venue : Mysore





Salem - 309

Project Based Evaluation Electronics and Communication Engineering

Project Name	: Piezo-smart Roads	Project title	: Spy Robot
Subject	: Optical Communication	Subject	: Robotics
Year / semester	: IV/VII	Year / semester	: III/VI
Student Name	: B.Samrethi Manojkumar	Student Name	: Gokula Kannan.M Gnanavel.S
Staff handled	: Mrs Syamala	Staff handled	: Mr.Karthik







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Civil Engineering

Project Name Subject	: Fly ash Paver Block : Construction Material	Project title Subject	: Layers of Flexible Pavement : Highway Engineering
Year / semester	II/IV	Year / semester	: III/VI
Student Name	:NITHISH KUMAR E PRAKASH J PRATHAP A SUDHAKARAN R	Student Name	: PRIYADHARSHINI B NAVEENA K R INDHUMATHI V
Staff handled	: Mrs.M.Poornima	Staff handled	:Mrs R.Suganya







Salem - 309

Electrical and Electronics Engineering

Project Title :	Hybrid Substation
Subject :	Transmission and Distribution
Year/Sem:	II/IV
	1.M.Yogeswaran
	2.K.Prabakaran
Student Name:	3.K.Praveen
	4.M.Ranjith
	5. P.Dhana sekar
Staff Handled:	Mr.P.Saravanakumar AP/EEE

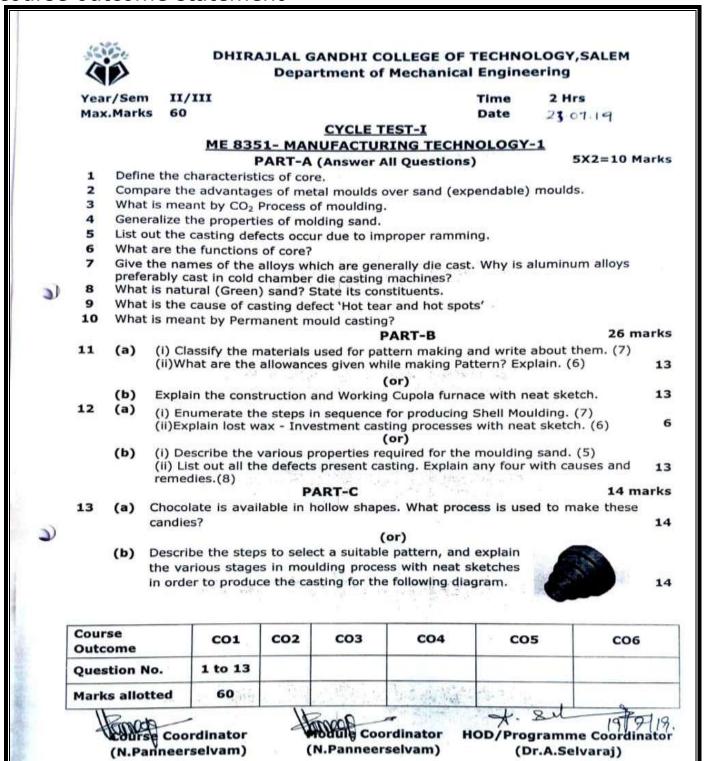




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INTERNAL ASSESSMENT

1. Sample questions, answer scripts, Marks statement and course outcome statement





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					Pa	rt A	74.3		-12	IIIVIS	,		rt B	E.	Part	5	Total	
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DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A CT- 1 MARKS

Subject Code & Name: ME8351 - Manufacturing Technology - I Subject Incharge : Mr.N.Panneerselvam, SAP/MECH

Date :23.07.2019

I. No	Register Number	Name of the Student	Marks out of 60	Marks out of 100
1. 100	610518114001	AJITHKUMAR .S	14	23
1	610518114002	AMARNATH.M	24	40
2	610518114003	ANBARASU .S	18	30
3	610518114004	ARULMANI.E	19	32
4	610518114005	ARUNKUMAR.S	44	73
5	610518114006	BARATH.R	41	68
6	610518114007	BHARATHKUMAR.C.S.	35	58
7	610518114008	BHUVANESH.M	30	50
8	610518114009	BOOBALAN.S	9	15
9		DEENADHAYALAN .P	AB	AB
10	610518114010	DEEPTHISHRIE.S	23	38
11	610518114011	DHANESH.M	43	72
12	610518114012	DHEENADHAYALAN.M	10	17
13	610518114013	The state of the s	18	30
14	610518114014	The state of the s	32	53
15	610518114015		30	50
16	610518114016		38	63
17	610518114017		39	65
18	610518114018		19	32
19	610518114019		5	8
20	610518114021		24	40
21	610518114022	The state of the s	33	55
22	61051811402		32	53
23	610518114024	The second secon	21	35
24	61051811402	- AMAGUL C	13	22
25	61051811402	THE PART D	30	50
26	61051811402	THE PERSON OF TH	AB	AB
27	61051811402	The second secon	43	72
28	61051811402		17	28
29		TO AND MALL	30	50
30		- THE AND AVANAN R.R.	16	27
31		THE PROPERTY OF THE PARTY OF TH	AB	AE
32		- ADMINIT DATARAM	21	3!
33		The second secon	34	5
34		THE THUMANDS	15	2
35		- DDADAVAD K	34	5
36				



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	THE PARALLE TO THE	32	53
0518114038	THOUANMED SALMAN	31	52
0518114040	MOHANAPRIYAN.P	AB	AL
0518114041	MOHANRAJ.S	36	60
0518114042	MURALI .M.P		
0518114046	BHARATHRAJ, K		
	DHANRAJ.A.S		
The state of the s	TAITHIVAS.C		
The state of the s	WAMALESH KUMAR ,A		
	MOHAMED AJMAL.M		-
The second secon	NOORUL , M		
The second secon	SANKAVI PREETHA.D.P		-
- Company of the Comp	THE PALAS		-
LE	Total no of Students		4 5
	Total no of absentees		3
	Total no of Pass		1
	Total No of Fall		1
	Percentage of Pass		53
	0518114039 0518114040 0518114041 0518114042 LE LE LE LE LE LE	0518114040 MOHANAPRIYAN.II) 0518114041 MOHANRAJ.S 0518114042 MURALI .M.P 0518114042 BHARATHRAJ. K LE DHANRAJ.A.S LE INTHIYAS.C LE KAMALESH KUMAR .A LE MOHAMED AJMAL.M LE NOORUL . M LE SANKAVI PREETHA.D.P	0518114040 MOHANAPRIYAN.II) AB 0518114041 MOHANRAJ.S 36 0518114042 MURALI .M.P 0518114042 BHARATHRAJ. K LE DHANRAJ.A.S LE INTHIYAS.C LE KAMALESH KUMAR .A LE MOHAMED AJMAL.M LE NOORUL . M LE SANKAVI PREETHA.D.P LE SANKAVI PREETHA.D.P LE Total no of Students Total no of Presents Total no of Pass Total No of Fail

STAFF INCHARGE/CLASS ADVISOR

P. Junt 2, 1215.



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DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A CT- 2 MARKS

et Code & Name: ME8351 - Manufacturing Technology - I

	egister Number	Name of the Student	Marks out of 60	Marks out of 100
	610518114001	AJITHKUMAR .S	18	30
	610518114002	AMARNATH.M	44	73
	610518114003	ANBARASU .S	37	62
	610518114004	ARULMANI.E	30	50
	610518114005	ARUNKUMAR.S	55	92
1	610518114006	BARATH.R	39	65
t	610518114007	BHARATHKUMAR.C.S.	43	72
t	610518114008	BHUVANESH.M	AB	AB
t	610518114009	BOOBALAN.S	22	37
+	610518114010	DEENADHAYALAN .P	AB	AB
t	610518114011	DEEPTHISHRIE.S	35	58
1	610518114012	DHANESH.M	37	62
1	610518114013	DHEENADHAYALAN.M	30	50
1	610518114014	DINESH.G	46	77
	610518114015	DINESH.K	30	50
	610518114016	FRANK JEEVARAJ.J	40	67
	610518114017	GANESHKUMAR.M	36	60
	610518114018	GOKUL.M	40	73
	610518114019	GOKULAKRISHNAN.M	44	53
-		GOKULNATH.M	32	50
	610518114021	GOPINATH.S	30	25
1	610518114022	HARTGOKULV	15	67
1	610518114023	THEESHWARAN.S	AB	AB
N	610518114024	THE STANISH S	6	10
100	610518114025	- DRAVASH C	43	72
100	610518114026	THEY AN .5	6	10
100	610518114027	- TIMEVAN R	45	75
1887	610518114028	- 1 5 5	35	58
0	610518114029		30	50
200	610518114030	The state of the s	19	32
ğ	610518114031	TALADAY MINTE		



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COURSE OUTCOME ANALYSIS

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A COURSE OUTCOMES

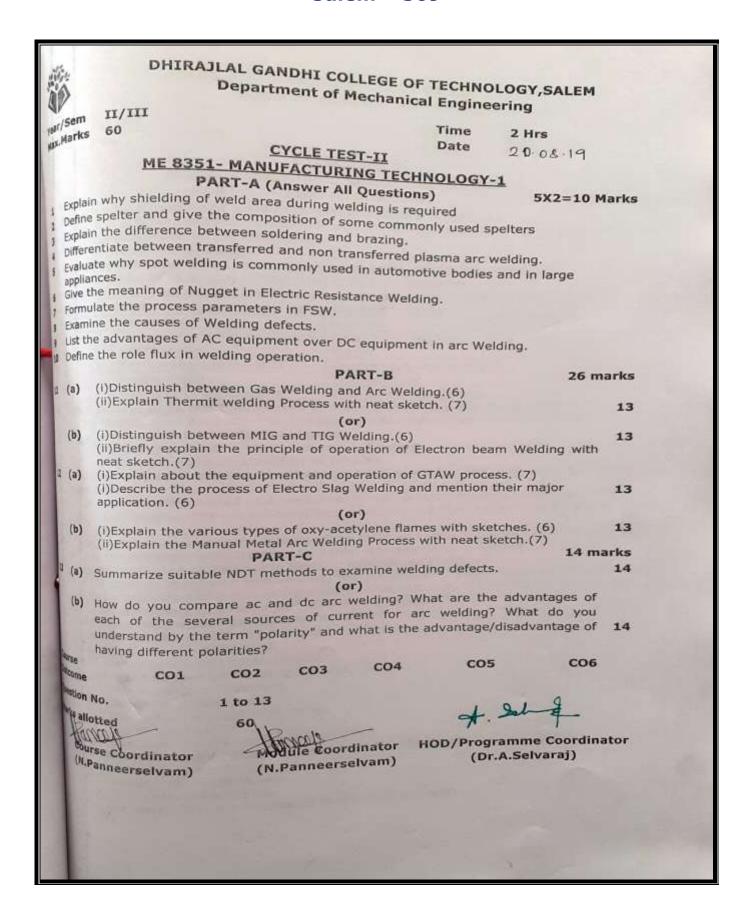
Subject Code & Name: ME8351 - Manufacturing Technology - I Subject Incharge: Mr.N.Panneerselvam, SAP/MECH

SI. No	Register Number	Name of the Student	3.04-19
1	610518114001	AJITHKUMAR .S	CO 1
2	610518114002	AMARNATH.M	23
3	610518114003	ANBARASU .S	40
4	610518114004	ARULMANI.E	30
5	610518114005	ARUNKUMAR.S	32
6	610518114006	BARATH.R	73
7	610518114007	BHARATHKUMAR.C.S.	68
8	610518114008	BHUVANESH.M	58
9	610518114009	BOOBALAN.S	50
10	610518114010		15
11	610518114011	DEENADHAYALAN .P DEEPTHISHRIE.S	AB
12	610518114012	DHANESH.M	38
13	610518114013		72
14	610518114014	DHEENADHAYALAN,M DINESH,G	17
15	610518114015	DINESH.K	30
16	610518114016	FRANK JEEVARAJ.J	53
17	610518114017	GANESHKUMAR,M	50
18	610518114018	GOKUL.M	63
19	610518114019	GOKULAKRISHNAN.M	65 32 b.
20	610518114021	GOKULNATH.M	8
21	610518114022	GOPINATH.S	40
22	610518114023	HARIGOKUL.V	55
23	610518114024	JAGATHEESHWARAN.S	53
24	610518114025	JAYANANTH.S	35
25	610518114026	JAYAPRAKASH.C	22
26	610518114027	KARTHIKEYAN .R	50
27	610518114028	KARTHIKEYAN.S	AB
28	610518114029	KARUN.M	72
29		KISHORE.B	28
30	610518114030	KOMAGAN.M.U	50
31		LAKSHMINARAYANAN R.R	2.7
32	610518114032	MADHAVAN.S.G	AB
33	610518114033	MALI ABHIJIT RAJARAM	35
34	610518114034	MANOJ V.M	57
35	610518114035	MANOJ KUMAR.S	25
36	610518114036	MANOJ PRABAKAR.K	57
37	610518114037	MOHAMAD ASARAF.J	AB



38 610518114039 MOHAMAPRIYAN.M 52 39 610518114041 MOHANRAJ.S AB 40 610518114041 MOHANRAJ.S 60 41 610518114042 MURALI .M.P 60 42 LE BHARATHRAJ. K NA 43 LE INTHIYAS.C NA 44 LE INTHIYAS.C NA 45 LE KAMALESH KUMAR .A NA 46 LE MOHAMED AJMAL.M NA 47 LE NOGRUL . M NA 48 LE SANKAVI PREETHA.D.P NA 49 LE VISHNU BALA. S NA 49 LE VISHNU BALA. S NA Total no of Students 10 Total no of Pass 19 Total no of Pass 19 Total no of Pass 19 Total No of Fail 17 Percentage of Pass 53%			MOHAMMED SALMAAN .H	53
39 610518114041 MOHANRAJ.S AB 40 610518114042 MURALI .M.P 60 41 610518114042 MURALI .M.P NA 42 LE BHARATHRAJ. K NA 43 LE OHANRAJ.A.S NA 44 LE INTHIYAS.C NA 45 LE KAMALESH KUMAR .A NA 46 LE MOHAMED AJMAL.M NA 47 LE SANKAVI PREETHA.D.P NA 49 LE VISHNU BALA. S NA 49 LE VISHNU BALA. S NA 49 LE Total no of Students Total no of Presents Total no of Presents Total no of Pass 19 Total No of Fail 17 Percentage of Pass 53%	20	610518114039	MOHAMMED SALE	52
40 610518114041 MURALI M.P. 60 41 610518114042 MURALI M.P. 60 41 610518114042 MURALI M.P. 60 42 LE BHARATHRAJ K NA 43 LE INTHIYAS C NA 44 LE INTHIYAS C NA 45 LE KAMALESH KUMAR A NA 45 LE MOHAMED AJMAL M NA 47 LE NOORUL M NA 48 LE SANKAVI PREETHA D.P NA 49 LE VISHNU BALA S NA 49 LE VISHNU BALA S S NA Total no of Students 5 Total no of Presents 36 Total no of Pass 19 Total No of Fail 17 Percentage of Pass 53%		610518114040	MOHANAPRITATION	AB
## 1 610518114042 MINTAL M		610518114041	MOHANKAJ.S	60
42 LE BHARATINAS NA 43 LE INTHIYAS.C NA 44 LE INTHIYAS.C NA 45 LE KAMALESH KUMAR .A NA 46 LE MOHAMED AJMAL.M NA 47 LE NOORUL . M NA 48 LE SANKAVI PREETHA.D.P NA 49 LE VISHNU BALA. S NA 49 LE Total no of Students Total no of Press 19 Total no of Pass 19 Total no of Fass 19 Total no of Fass 19 Total no of Fass 53% TOTAL NO OF Fall 17 Percentage of Pass 53% HOW MECH		610518114042	MURALI .M.P	NA
43 LE INTHIYAS.C NA 44 LE KAMALESH KUMAR .A NA 45 LE KAMALESH KUMAR .A NA 46 LE MOHAMED AJMAL.M NA 47 LE NOORUL . M NA 48 LE SANKAVI PREETHA.D.P NA 49 LE VISHNU BALA. S NA 49 LE Total no of Students 41 Total no of Presents 36 Total no of Presents 36 Total no of Presents 36 Total No of Fail 17 Percentage of Pass 53% APP INCHARGE/CLASS ADVISOR		LE	BHARATHRAJ. K	
44 LE KAMALESH KUMAR .A NA 45 LE MOHAMED AJMAL.M NA 46 LE NOORUL . M NA 47 LE SANKAVI PREETHA.D.P NA 48 LE SANKAVI PREETHA.D.P NA 49 LE VISHNU BALA. S NA 49 LE Total no of Students 11 Total no of Presents 36 Total no of Presents 36 Total no of Pass 19 Total No of Fail 17 Percentage of Pass 53% APP INCHARGE/CLASS ADVISOR		LE	DHANRAJ.A.S	75000
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46 LE MOHAMED AUMAL. N 47 LE NOORUL. M NA 48 LE SANKAVI PREETHA. D. P NA 49 LE VISHNU BALA. S NA Total no of Students 41 Total no of Presents 36 Total no of Presents 19 Total No of Fail 17 Percentage of Pass 53% TOTAL NO OF TAIL 17 Percentage of Pass 19 HOD/MECH		LE	KAMALESH KUMAK .A	
47 LE NOORUL. MA 48 LE SANKAVI PREETHA.D.P NA 49 LE VISHNU BALA. S NA Total no of Students 41 Total no of Absentees 5 Total no of Pass 19 Total No of Fail 17 Percentage of Pass 53% APP INCHARGE/CLASS ADVISOR HOD/MECH		LE	MOHAMED AJMAL.M	0701000
48 LE SANKAVI PREETHA.D.P NA 49 LE VISHNU BALA. S NA Total no of Students 41 Total no of absentees 5 Total no of Presents 36 Total no of Pass 19 Total No of Fail 17 Percentage of Pass 53% APP INCHARGE/CLASS ADVISOR LE VISHNU BALA. S NA Total no of Students 41 Total no of Pass 55 Total no of Pass 19 Total No of Fail 17 Percentage of Pass 53%		LE	NOORUL . M	100000000000000000000000000000000000000
Total no of Students Total no of absentees Total no of Presents Total no of Presents Total no of Pass Total no of Pass Total no of Pass Total No of Fail Percentage of Pass Total No of Fail Total No of Fail Total No of Fail Total No of Fail Total No of Pass Total No of Fail Total No of Pass Total No of Fail Total No of		LE	SANKAVI PREETHA.D.P	
Total no of students 41 Total no of absentees 5 Total no of Presents 36 Total no of Pass 19 Total No of Fall 17 Percentage of Pass 53% TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 17 Percentage of Pass 19 TOTAL NO OF FALL 19 TOTA	400000000000000000000000000000000000000	LE	VISHNU BALA. S	
Total no of Presents Total no of Pass Total no of Pass Total No of Fail Total No of Fail Total No of Fail Total No of Fail Percentage of Pass Total No of Fail	-10		Total no of Students	
Total No of Fail 17 Percentage of Pass 53% APPINCHARGE/CLASS ADVISOR HOD/MECH			Total no of absentees	
Total No of Fail 17 Percentage of Pass 53% APPINCHARGE/CLASS ADVISOR HOD/MECH			Total no of Pass	
Percentage of Pass 53% APPINCHARGE/CLASS ADVISOR HODOMECH				
APTINCHARGE/CLASS ADVISOR HOD/MECH				
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	APPIN	CHARGE/CLASS AL	OVISOR	OB/MECH
	APPIN	CHARGE/CLASS AL	OVISOR	TO STMECH
	APPIN	CHARGE/CLASS AL	OVISOR	TO STMECH
	APPIN	CHARGE/CLASS AL	DVISOR	TO STMECH
	APP IN	CHARGE/CLASS AL		TO STMECH
	APP IN	CHARGE/CLASS AL		TO STMECH
	APP IN	CHARGE/CLASS AL		TO ST MECH
	APP IN	CHARGE/CLASS AL		TO STMECH







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DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A CT- 2 MARKS

code & Name: ME8351 - Manufacturing Technology - I et Incharge : Mr.N.Panneerselvam, SAP/MECH

0	Register Number	Name of the Student	Marks out of 60	Marks out of 100
1	610518114001	AJITHKUMAR .S	18	30
1	610518114002	AMARNATH.M	44	73
1	610518114003	ANBARASU .S	37	62
1	610518114004	ARULMANI.E	30	50
	610518114005	ARUNKUMAR.S	55	92
	610518114006	BARATH.R	39	65
	610518114007	BHARATHKUMAR.C.S.	43	72
	610518114008	BHUVANESH.M	AB	AB
-	610518114009	BOOBALAN.S	22	37
10	610518114010	DEENADHAYALAN .P	AB	AB
11	610518114011	DEEPTHISHRIE.S	35	58
12	610518114012	DHANESH.M	37	62
3	610518114013	DHEENADHAYALAN.M	30	50
14	610518114014	DINESH.G	46	77
15	610518114015	DINESH.K	30	50
15	610518114016	FRANK JEEVARAJ.J	40	67
1	610518114017	GANESHKUMAR.M	36	60
18		GOKUL.M	40	73
1615		GOKULAKRISHNAN.M	44	53
10	610518114021	GOKULNATH.M	32	50
Ì	610518114022	GOPINATH.S	15	25
100	610518114023	LIARTGOKUL.V	40	67
1	610518114024	THEESHWARAN.S	AB	AB
1	610518114025	JAYANANTH.S	6	10
2000	610518114026	JAYAPRAKASH.C	43	72
	610518114027	KARTHIKEYAN .S	6	10
		- INCOME	45	75
	610518114028	1	35	58
	610518114029	THE P	30	50
	610518114030		19	32
	610518114031	- TRIADAY MINN		



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		MADHAVAN.S.G	AB	AF
32	610518114033	MALI ABHIJIT RAJARAM	22	37
33	610518114034	MALI ABRIDIT TO	20	33
34	610518114035	MANOJ V.M	12	20
35	610518114036	MANOJ KUMAR.S	35	58
36	610518114037	MANOJ PRABAKAR.K	AB	AB
37	610518114038	MOHAMAD ASARAF.J	41	68
38	610518114039	MOHAMMED SALMAAN .H	40	
39	610518114040	MOHANAPRIYAN.M	30	67
40	610518114041	MOHANRAJ.S	41	50
41	610518114042	MURALI .M.P	30	68
42	LE	BHARATHRAJ. K		50
43	LE	DHANRAJ.A.S	54	90
44	LE	INTHIYAS.C	33	55
45 .	LE	KAMALESH KUMAR .A	30	50
46	LE	MOHAMED AJMAL.M	6	10
47	LE	NOORUL . M	AB	AB
48	LE	SANKAVI PREETHA.D.P	30	50
49	LE	VISHNU BALA. S	31	52
		Total no of Students		49
		Total no of absentees		6
		Total no of Presents		43
		Total no of Pass Total No of Fall		33
		Percentage of Pass		779

SMEF INCHARGE/CLASS ADVISOR

HOD/MECH



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DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A COURSE OUTCOME STATEMENT

oxe & Name: MES351 - Manufacturing Technology - I

60 18 44 37 30 55 39 43 AB 22 AB 35 37 30 46 30 40	92 65 72 AB 37 AB 58 62 50 77 50
44 37 30 55 39 43 AB 22 AB 35 37 30 46 30	73 62 50 92 65 72 AB 37 AB 58 62 50
37 30 55 39 43 AB 22 AB 35 37 30 46 30	62 50 92 65 72 AB 37 AB 58 62 50
30 55 39 43 AB 22 AB 35 37 30 46 30	50 92 65 72 AB 37 AB 58 62 50
55 39 43 AB 22 AB 35 37 30 46 30	92 65 72 AB 37 AB 58 62 50
39 43 AB 22 AB 35 37 30 46 30	65 72 AB 37 AB 58 62 50 77
43 AB 22 AB 35 37 30 46 30	72 AB 37 AB 58 62 50 77
AB 22 AB 35 37 30 46 30	AB 37 AB 58 62 50 77
22 AB 35 37 30 46 30	37 AB 58 62 50 77
AB 35 37 30 46 30	AB 58 62 50 77
35 37 30 46 30	58 62 50 77
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the state of the s	67
36	60
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40	67
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6	72
6	10
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	58
	50
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AB	AB
	37
22	33
22	20
	22



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		TAKAR K	35	58
	1027	MANOJ PRABAKAR,K	AB	AB
36	610518114037	MOHAMAD ASARAF.J	41	68
37	610518114038	1 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40	67
38	610518114039	MOHANAPRITATION	30	50
39	610518114040 610518114041	MOHANRAJ.S	41	68
40	610518114042	MURALI .M.P	30	50
41		BHARATHRAJ. K	54	90
42	LE	DHANRAJ.A.S	33	55
43	LE	INTHIYAS.C	30	
44	LE	KAMALESH KUMAR .A	6	50
45	LE	MOHAMED AJMAL.M		10
46	LE	NOORUL . M	AB	AB
47	LE	SANKAVI PREETHA.D.P	30	50
48	LE	SANKAVI PREETI	31	52
49	LE	VISHNU BALA. S Total no of Students		49
		Total no of absentees		6
No.		Total no of Presents		43
		Total no of Pass		33
10		Total No of Fail		10
		Percentage of Pass		77%

STAFF INCHARGE/CLASS ADVISOR

HOD/MECH



DHIRAJLAL GANDHI COLLEGE OF	2000	
DHIRAJLAL GANDHI COLLEGE OF Department of Mechanica	TECHNO	LOGY, SALEM
II/III/A	I Engine	ering
n or an artist of the second o	Time	3 Hrs
INTENSIVE CO.	Date	21.09.2019
INTENSIVE COACHING TEST	- I	
ME 8351- MANUFACTURING TECHI	NOLOGY	-1
PART-A (Answer All Questions)	10X2=20Marks
inguish between shape rolling and flat rolling?		
nguish between forward hot extrusion and backward	d extrusio	n.
can you reduce the roll force in rolling processes?		
erentiate between hot forging and cold forging.		
kis meant by re-crystallization temperature?		
ne lateral Extrusion.		
grentiate between redrawing and reverse drawing.		
give the term 'spring back' in sheet metal forming.		
is the effect of clearance in the punch and die form	ning for sh	nearing sheet metal?
is shear angle in sheet forming?		
PART-B		5x13 = 65 marks
(i) Explain hot working and cold working processe	12 2	
(ii) Explain various forging operation	(7)	
(or)		
(i) Discuss the types of Rolling mills. (6)		
(ii) Explain process of making seamless tube. (7) (ii) Classify and write notes on various Rolling Star	nd Arrange	ement in detail. (7)
		(6)
(ii) Explain Impression die forging process. (or)		
(i) What are the types of power hammer available	e? Explain	any two with neat
*Ketch		200
(i) Discuss blanking and punching with three production	essing ph	docu.
(ii) Discuss how the tubes for shaving cream/ too	th paste e	i C pi seri
With neat diagram explain the process of forward	extrusion	and also explain how
With a forward	extrusion	
hollow sections can be produced in this process.		



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	ion No				to 14 & 16	6 to 10, 14 &15				
ROUGHEN STATE	me				1 to 5,11	6 to 10 11				
	C.C.T.C.10386-1		CO1	CO2	CO3	CO4	COS	CO6		
16	(b)	A 300 powere to 22 r flow cu friction the fric	mm wide d rolls ead nm in one irve defin between tion is suf	strip 25 ch of radiu pas at a ed by K = the rolls a ficient to p	(or) mm thick is fe is = 250 mm. th roll speed of 50 = 275 MPa and and the work is	d through a roll ne work thickness rev/min. the wo n = 0.15 and assumed to be 0	ing mill with	n two 15 duced has a ent of		
		PART-C 15 mar With use simple sketches formulate the mathematical expression for the flat								
	(b)	neat s	ketch. alculate m	inimum d	iameter of hole	punched on a ssive strength e size with cleara	5 mm thick are 180 N	plate with		
					(or)	metals, Discuss s	uitable proce	ess with		
15	(a)	the important factors of perions of								
	(b)				tal characteristic netal drawing op		tches. (4)			
1.4	(a)	(II) A	nalyze and and indir	ect method	ds. (o	10.00	trusion proce	(6) ess by (7)		

dourse Coordinator (N.Panneerselvam)

Module Coordinator (N.Panneerselvam)

HOD/Programme Coordinator (Dr.A.Selvaraj)



	-
Reg No: DIDEIRINODE.	
Date: 21/09/2019.	
Date: 21/09/2019.	1
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DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A ICT- 1 MARKS

code & Name: ME8351 - Manufacturing Technology - I

Register Number 610518114001		Marks out of 100	Marks out of 100
610518114001	AJITHKUMAR .S AMARNATH.M	OD	0
610518114003	ANBARASU .S	50	50
610518114004	ARULMANI.E	OD	0
610518114004		OD	0
610518114005	ARUNKUMAR.S BARATH.R	71	71
610518114000		64	64
	BHARATHKUMAR.C.S.	52	52
610518114008	BHUVANESH.M	50	50
610518114009	BOOBALAN.S	50	50
610518114010	DEENADHAYALAN .P	AB	0
610518114011	DEEPTHISHRIE.S	OD	0
610518114012	DHANESH.M	56	56
610518114013	DHEENADHAYALAN.M	50	50
610518114014	DINESH.G	AB	0
	DINESH.K	26	26
	FRANK JEEVARAJ.J	50	50
	GANESHKUMAR.M	AB	0
	GOKUL.M	52	52
610518114019	GOKULAKRISHNAN.M	66	66
610518114021	GOKULNATH.M	OD	0
610518114022	GOPINATH.S	OD	0
010518114023	HARIGOKUL.V	OD	0
010518114024	JAGATHEESHWARAN.S	OD	0
1051811402F	JAYANANTH.S	OD	0
10018111000	JAYAPRAKASH.C	OD	0
V3 X1 1 4000	KARTHIKEYAN .S	60	60
	KARTHIKEYAN.R	AB	0
	CARUN.M	72	72
\$10518114029 F	CISHORE.B	31	31
00518114030 F	COMAGAN.M.U	58	58
\$10518114031 H	AKSHMINARAYANAN R.R	32	32



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			AB	0
	1000	MADHAVAN.S.G	66	66
32	610518114033	MALI ABHIJIT RAJARAM	50	50
33 -	610518114034	MANOI V.M	OD	0
34	610518114035	WANDI KUMAR.S	OD	0
35	610518114036	TMANOI PRABAKAKIK	AB	0
36	610518114037	TOURMAD ASARAT.	60	60
37	610518114038	MOHAMMED SALMAAN	50	50
38	610518114039	MOHANAPRIYAN.M	AB	0
39	610518114040 610518114041	MOHANRAJ.S	53	53
40	610518114041	MURALI .M.P	AB	0
41	610518114042	BHARATHRAJ, K	AB	0
42	LE	DHANRAJ.A.S	AB	0
43	LE	INTHIYAS.C	19	19
44	LE	KAMALESH KUMAR .A		0
45	LE	MOHAMED AJMAL.M	AB	0
46	LE	NOORUL . M	AB	
47	LE	SANKAVI PREETHA.D.P	AB	0
48	LE	VISHNU BALA. S	71	71
49	LE	Total no of Students		49
		Total no of absentees		0
		Total no of Presents		20
		Total no of Pass		29
		Total No of Fail Percentage of Pass		41%

STAFF INCHARGE/CLASS ADVISOR

A. DI A HOD/MECH



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DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A COURSE OUTCOME STATEMENT

code & Name: ME8351 - Manufacturing Technology - I

10	Register Number	Name of the Student	CO3 Out of	CO4 out
1	610518114001	AJITHKUMAR .S	100	of 100
1	610518114002	AMARNATH.M	0	0
1	610518114003	ANBARASU .S	50	50
+	610518114004	ARULMANI.E	0	0
4	610518114005	ARUNKUMAR.S	0	0
4			71	71
1	610518114006	BARATH.R	64	64
	610518114007	BHARATHKUMAR.C.S.	52	52
1	610518114008	BHUVANESH.M	50	50
1	610518114009	BOOBALAN.S	50	50
	610518114010	DEENADHAYALAN .P	0	0
	610518114011	DEEPTHISHRIE.S	0	0
	610518114012	DHANESH.M	56	56
	610518114013	DHEENADHAYALAN.M	50	50
	610518114014	DINESH.G	0	0
	610518114015	DINESH.K	26	26
	610518114016	FRANK JEEVARAJ.J	50	50
	610518114017	GANESHKUMAR.M	0	0
	610518114018	GOKUL.M	52	52
	610518114019	GOKULAKRISHNAN.M	66	66
	610518114021	GOKULNATH.M	0	0
	610518114022	GOPINATH.S	0	0
	610518114023	HARIGOKUL.V	0	0
1	610518114024	JAGATHEESHWARAN.S	0	0
1	610518114025	JAYANANTH.S	0	0
1	610518114026	JAYAPRAKASH.C	0	0
1	610518114026	KARTHIKEYAN .S	60	60
1	610518114027	KARTHIKEYAN.R	0	0
1	610518114028	KARUN.M	72	72
7	610518114029	KISHORE.B	31	31
1	610518114030	TOTAL CAN MI	58	58
1	610518114031	LAKSHMINARAYANAN R.R	32	32
+	610518114032	TABLIAN/AN S.CT	0	0
+	010518114033	MADHAVAN.S.G MALI ABHIJIT RAJARAM	66	66
+	010518114034	MALI ABHIJI 100	50	50
+	610518114035 610518114036	MANOJ V.M MANOJ KUMAR.S	0	0



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		THE K	0	0
		[MANOJ PRABAKAR.K	0	0
-	610518114037	MANOJ PRABANA MOHAMAD ASARAF.J MOHAMAD SALMAAN .H	60	60
36	E10518114030	MOHAMMED SALMAAN .H	50	50
37	610518114922	MOHANAPRITA	0	0
39	610518114040	MOHANRAJ.5	53	53
40	610518114041	MIRALI M.P	0	0
41	610518114042	BHARATHRAJ. K	0	0
42	LE	DHANRAJ.A.S	0	0
43	LE	TRUTHITYAS.C	19	19
44	LE	WAMALESH KUMAK A	0	0
45	LE	MOHAMED AJMAL.M	0	0
46	LE	NOORUL . M		_
47	LE	SANKAVI PREETHA.D.P	0	0
48	LE	SANKAVI PRELITI	71	7:
49	LE	VISHNU BALA. S Total no of Students		
		Total no of absences		
		Total no of Presents		
		Total no of Pass		
		Total No of Fail		
		Percentage of Pass		

STAFF INCHARGE/CLASS ADVISOR

HOD/MECH



	DHIRAJLAL GANDHI			
þ	DHIRAJLAL GANDHI COLLEGE OF Department of Mechanica	TECHN	0.	
9	Department of Mechanica	I Engine	OLOGY,SALEM	
sem	- 00	Time		
parks		Date	3 Hrs	
	INTENSIVE COACHING TEST	- 11	03.10.2019	
	PART-A (Answer All Questions		-1	
	thermo-plastics used in industries.)	10X2=20Marks	
inte i	omo-polymer is is different from Co-polymer?		ZUMarks	
-Snp	thermo forming processes			
ant 2	re commonly used fillers?			
	hort note on film blowing.			
se th	e comparison between Addition polymerization.	n and co	endensation	
£0U	some Characteristics of plastic materials			
	ut the industrial uses of fibres and filaments.			
	reinforced plastics and where is it applied.			
	wo adhesive that are used for adhesive bond	ing of pla	estics.	
	PART-B	- 19/10	5×13 = 65 marks	
4	List out the types of thermosetting plastics. Complication of each one.	Sive char	acteristics and	
	(or)			
	Discuss about a few Commercial Plastics.			
	(i) Differentiate between Thermo plastics and		etting plastics. (7)	
	ii) State the purpose of the following plastics		(6)	
	1.Plasticizers			
	2. Modifiers 3. Stabilizers 4. Solvents			
	(or)			
в	Explain the rotational molding processes with	neat ske	ermo – plastics	
и	Explain the following (i) Film blowing (ii) bond	ing of th	ermo – piasse	
	(or)			



may	Constitution	#	CONSTRUCTION OF THE CONTROL OF THE C	- in	* 91	9			
ks allo	ttea				100				
					1 to 16				
rse	CO	. CO2	соз	CO4	COS	C06			
(b)	Recommen	d a suitable m		process for pr	oducing plast	tic			
(a)	Name and plunger of :	explain suita syringe.		for producin	g the barrer	and			
(5)		PAR	T-C		1	5 marks			
(1-)	Evoluin the	Compression	molding prod	esses with ne	at sketch				
(a)	Enumerate	with neat ske	ith neat sketch about solvent bonding.						
(b)	With a suit	ble sketch, describe two types of injection molding process.							
(a)			(or)						
(b)		and the second s	low molding processes (7)						
	(b) (a) (b) (a) (b)	(a) Explain about (b) With a suit (a) Enumerate (b) Explain the (a) Name and plunger of suit (b) Recommend Bottles and (c) Stion No. (c) allotted	(a) Explain about transfer m (b) With a suitable sketch, d (a) Enumerate with neat sket (b) Explain the Compression PAR (a) Name and explain suita plunger of syringe. (b) Recommend a suitable m Bottles and plastic foot b rse come CO1 CO2 Stion No. (c) allotted	(a) Explain about transfer molding with it (or) (b) With a suitable sketch, describe two to the Enumerate with neat sketch about soil (or) (b) Explain the Compression molding product PART-C (a) Name and explain suitable processes plunger of syringe. (or) (b) Recommend a suitable manufacturing Bottles and plastic foot balls.	(a) Explain about transfer molding with its advantage (or) (b) With a suitable sketch, describe two types of inject Enumerate with neat sketch about solvent bonding. (or) (b) Explain the Compression molding processes with ne PART-C (a) Name and explain suitable processes for producin plunger of syringe. (or) (b) Recommend a suitable manufacturing process for producin Bottles and plastic foot balls. (or) (stion No. (c) CO2 CO3 CO4	(a) Explain about transfer molding with its advances (or) (b) With a suitable sketch, describe two types of injection molding processes with neat sketch about solvent bonding. (or) (b) Explain the Compression molding processes with neat sketch PART-C (a) Name and explain suitable processes for producing the barrel plunger of syringe. (or) (b) Recommend a suitable manufacturing process for producing plast Bottles and plastic foot balls. (or) (b) Resommend a suitable manufacturing process for producing plast Bottles and plastic foot balls. (b) Resommend a suitable manufacturing process for producing plast Bottles and plastic foot balls. (b) Resommend a suitable manufacturing process for producing plast Bottles and plastic foot balls. (b) Resommend a suitable manufacturing process for producing plast Bottles and plastic foot balls. (complete the process for producing plast Bottles and plastic foot balls. (b) Resommend a suitable manufacturing process for producing plast Bottles and plastic foot balls. (complete the process for producing plast Bottles and plastic foot balls. (b) Resommend a suitable manufacturing process for producing plast Bottles and plastic foot balls. (complete the process for producing plast Bottles and plastic foot balls. (complete the process for producing plast Bottles and plastic foot balls.			



- Par	Dhirajlal Gandhi Collage of Technology SALEM - 636 309 Additional Sheet
	Pegiter Number: blos 12114029 Class - II.d - Year - Mech - No. Mech - No. Subject - ME 2351 Manufacturing Technology-T Date 03 10 2019 Part - A Thermo plantics - * Selicon * polysters * phenol formoldehyde * polyster Yesin * phenol furnished * phenol fu



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DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A

& Name: ME8351 - Manufacturing Technology - I

gister Number		Marks out of 100
10518114001	AJITHKUMAR .S	51 100
00518114002	AMARNATH.M	AB
00518114003	ANBARASU .S	66
10518114004	ARULMANI.E	27
10518114005	ARUNKUMAR.S	24
0518114006	BARATH.R	AB
10518114007	BHARATHKUMAR.C.S.	65
10518114008	BHUVANESH.M	51
10518114009	BOOBALAN.S	50
0518114010	DEENADHAYALAN .P	21
0518114011	DEEPTHISHRIE.S	36
0518114012	DHANESH.M	55
0518114014	DINESH.G	54
0518114015	DINESH.K	27
0518114016	FRANK JEEVARAJ.J	22
0518114017	GANESHKUMAR.M	27
0518114018	GOKUL.M	AB
0518114019	GOKULAKRISHNAN.M	AB
0518114021	GOKULNATH.M	AB
0518114022	GOPINATH.S	28
518114023	HARIGOKUL.V	AB
518114024	JAGATHEESHWARAN.S	23
18114025	JAYANANTH.S	AB
18114026	JAYAPRAKASH.C	AB
18114027	KARTHIKEYAN .R	50
218114028	KARTHIKEYAN.S	AB
218114020	KARUN.M	77
318114030	KISHORE.B	54
10114024	KOMAGAN.M.U	51
10114022	LAKSHMINARAYANAN R.R	17
518114034	MALI ABHIJIT RAJARAM	27



32	610518114035	MANOJ V.M	AB
33	610518114036	MANOJ KUMAR.S	50
34	610518114037	MANOJ PRABAKAR.K	50
35	610518114039	MOHAMMED SALMAAN .H	51
	610518114040	MOHANAPRIYAN.M	
36	610518114041	MOHANRAJ.S	AB
37	610518114042	MURALI .M.P	50
38	LE	BHARATHRAJ. K	51
39	LE	DHANRAJ.A.S	55
40		INTHIYAS.C	51
41	LE	KAMALESH KUMAR .A	51
42	LE	MOHAMED AJMAL.M	AB
43	LE		AB
44	LE	NOORUL . M	38
45	LE	SANKAVI PREETHA.D.P	50
46	LE	VISHNU BALA. S	41
		Total no of Students	13
		Total no of absentees Total no of Presents	28
		Total no of Pass	21
		Total No of Fail	7
11	4- /	Percentage of Pass	759
17	PLOY		



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DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING II-YEAR /III -SEMESTER / SECTION-A Course Outcomes statement

Name: ME8351 - Manufacturing Technology - I e : Mr.N.Panneerselvam, SAP/MECH

register Number	Name of the Student	
2019114001	AUTHKUMAR S	CO5 OUT OF 100
	AMARNATH.M	AB
-10518114000	ANBARASU .S	66
10518114004	ARULMANI.E	27
mn518114005	ARUNKUMAR.S	24
00518114006	BARATH.R	AB
10518114007	BHARATHKUMAR.C.S.	65
10518114008	BHUVANESH.M	51
10518114009	BOOBALAN.S	50
10518114010	DEENADHAYALAN .P	21
10518114011	DEEPTHISHRIE.S	36
10518114012	DHANESH.M	55
10518114014	DINESH.G	50
10518114015	DINESH.K	54
10518114016	FRANK JEEVARAJ.J	27
10518114017	GANESHKUMAR.M	22
	GOKUL.M	27
10518114019	GOKULAKRISHNAN.M	AB
10518114021	GOKULNATH.M	АВ
10518114022	GOPINATH.S	AB
0518114023	HARIGOKUL.V	28
0518114024	AGATHEESHWARAN.S	AB 23
0518114025	AYANANTH.S	AB
18114026	AYAPRAKASH.C	AB
2018114027 K	CARTHIKEYAN .R	50
218114020	ARTHIKEYAN.S	AB
210114020	ARUN.M	77
210114030 V	ISHORE.B	54
210114021 V	OMAGAN.M.U	51
10114022	AKSHMINARAYANAN R.R	17
10 14004	ALI ABHIJIT RAJARAM	27
- 91140ar	M.V LONA	52
3011400-	ANOJ KUMAR.S	AB
10000	ANOJ PRABAKAR.K	50
518114039 M	OHAMMED SALMAAN .H	50
	OHANAPRIYAN.M	51



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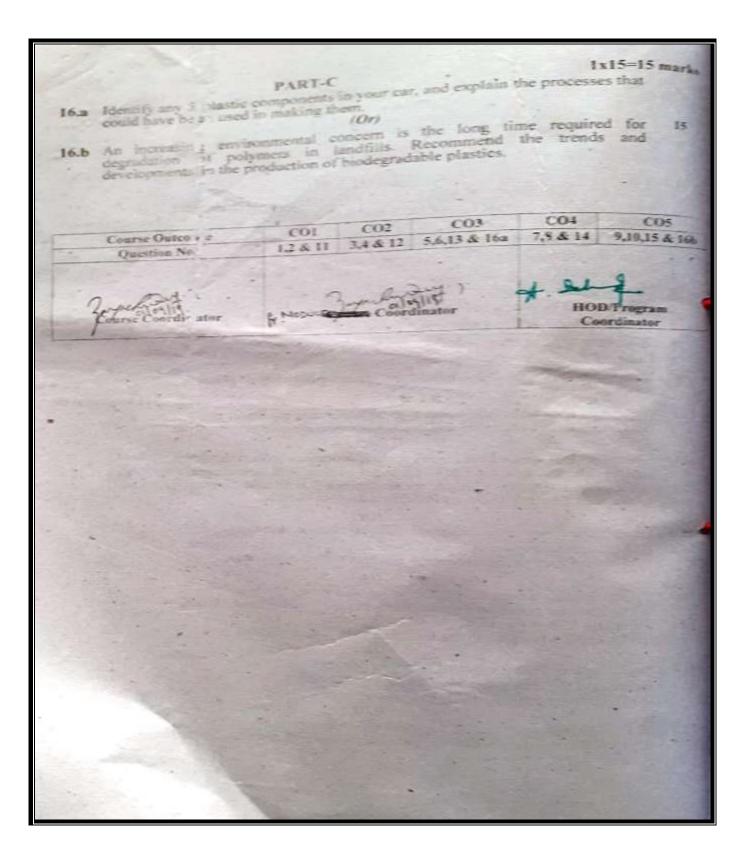
			AB
		[MOHANRA].S	50
7	610518114041	THURALI M.P	51
8	610518114042	TRUARATHRAJ. N	55
9	LE	DHANRAJ.A.S	51
0	LE	TANK A C. C.	51
1	LE	THE PART ESH KUMAN	AB
12	LE	MOHAMED AJMALIN	AB
13	LE	TIRODIII M	38
4	LE	SANKAVI PREETHA.D.P	50
5	LE		49
6	LE	Total no of Students	13
		Total no of absentees	36
		Total no of Presents	21
		Total no of Pass	15
- 1		Total No of Fail	5833%
_		Percentage of Pass	3033%

STAFF INCHARGE/CLASS ADVISOR



	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM Department of Mechanical Engineering	(a)
Year/S	em: II/ III - A & B Tim.e:	3 hrs
Max. M	Marks: 100 Date:	121,10.2019(AN)
Water to the	MODEL EXAM	
N 12	ME 8351 - MANUFACTURING TECHNOLOGY-1	
2000	Define: Core PART - A (Answer All Questions)	0x2=20Marks
		7 T W
2.	Generalize the properties of molding sand.	4 W
3.	Names the types of flames used in gas welding.	35
4.	Define: Friction stir welding.	
3.	Defir e: Recry tallisation temperature	
6.	- The state of tweeth not and cold working.	8
7.	Define spring back in sheet metal forming.	
	What is hydro forming process?	
9.	Define Elastomers.	- X
10.	Name two adhesive that are used for adhesive bonding of plastics.	
	A PROPERTY OF THE PROPERTY OF	5x13=65 marks
11.a	(i) Explain about the allowances given while making Pattern? (ii) Compare hot chamber and cold chamber die casting. (Or)	(7) (6)
11.b 12.a	(i)Explain lost wax - Investment casting processes with neat sketch (ii)Describe any one type of Centrifugal casting with neat diagram (i)Describe the submerged arc welding process with neat diagram	(7) (6) (7)
	(ii)Explain Thermit welding Process with neat sketch.	(6)
12.b	Explain the types of resistance welding with neat sketches	(13)
13.a	(i) Explain the steps involved in drop forging with neat sketches	(7)
The said of	(ii) Explain the Precision forging Process with neat sketch	(6)
134	• (Or)	13
13.b	(i)Explain with a neat sketch the process of Rod Drawing.	(6)
4-7-5	(ii) Write short notes on impact extrusion and hydro static extrusion.	(7)
14.a	(i)Explain Micro forming. (ii) Describe Magnetic Pulse Forming with a neat sketch. (Or)	(7) (6)
14.b	Explain the different types of bending process.	(13)
15.a	(i) Explain the Extrusion blow moulding process.	(7)
	(ii) Describe the Blown-film Extrusion process. (Or)	(6)
15.b	(i) Explain any one type of injection moulding process.(ii) Explain transfer moulding. Discuss its advantages and limitations	. (6)

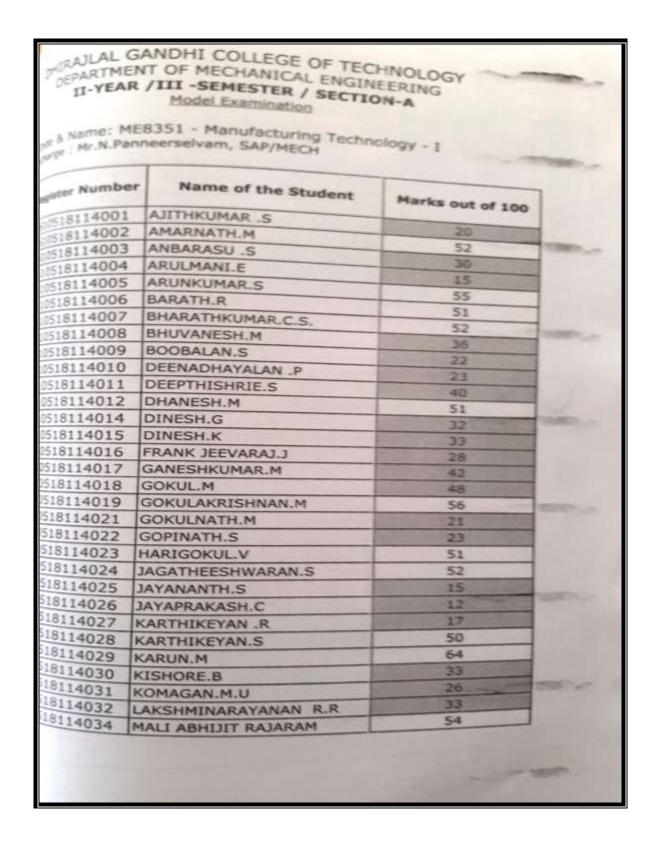






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PA/ Question No.	Paper Cod	Oversion No.	Put a tick me	KT - B & C	No. of Pa or the qu	edons at	GRAND 7018L	o Bok mar	i column ag	Marks	westion Marks	
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PAI Question No. 1 2 3 4	Paper Cod on to the car RT - A Marks 0	Ountion No. 11 b a 12 b a 13 b a 14	Put a tick ma	XT-B&(No. of Pa or the qu	ges used estons at Total	GRAND TOTAL IN WORDS	COs	ONa. 1, 2,1	Marks	Marks Obtaine	
PA) Question No. 1 2 3 4 5 6	RT - A Marks O V	Ountion No. 11 b a 12 b a 13 b a 14 b a	Put a tick ma	XT-B&(No. of Pa or the qu	ges used estons at Total	GRAND TOTAL IN WORDS	cos	i column ag	Marks Allotted	Marks Obtaine	9 16
PAI Question No. 1 2 3 4 5 6 7	RT - A Marks O V	Ouestice No. 11 b a 12 b a 14 b a 15 b	Put a tick ma	XT-B&(No. of Pa or the qu	ges used estons at Total	GRAND TOTAL IN WORDS	COs	ONa. 1, 2,1	Marks Allotted	Marks Obtaine	9 16
PA) Question No. 1 2 3 4 5 6	Paper Cod on to the car RT - A Marks 0 0 1	Ouesido No. 11 b a 12 b a 13 b a 14 b	Put a tick ma	T-B&(No. of Pa or the qu	ges used estons at Total	GRAND TOTAL IN WORDS	COs	ONa. 1, 2,1	Marks Allotted	Marks Obtaine	9 6







2-00	n ob	Percentage of Pass	47%
		Total No of Fail	20
		Total no of Pass	18
		Total no of Presents	38
		Total no of absentees	3
		Total no of Students	41
49	610518114313	VISHNU BALA, S	54
48	610518114311	SANKAVI PREETHA.D.P	52
47	610518114307	NOORUL . M	AB
46	610518114306	MOHAMED AJMAL.M	12
45	610518114305	KAMALESH KUMAR .A	52
44	610518114304	INTHIYAS.C	25
43	610518114302	DHANRAJ.A.S	53
42	610518114301	BHARATHRAJ. K	17
41	610518114042	MURALI .M.P	AB
40	610518114041	MOHANRAJ.S	AB
39	610518114040	MOHANAPRIYAN.M	55
38	610518114039	MOHAMMED SALMAAN ,H	52
36	610518114037	MANOJ PRABAKAR.K	51
35	610518114036	MANOJ KUMAR.S	12
34	610518114035	MANOJ V.M	14



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ASSIGNMENT (Sample)





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Various types of moulding sand used in moulding are! 1 . 61 reen nard . 2. bry and. 3 roung sand 4 . Loom sond. 5 - Backing sord . 6 . parting sand . 1. Gireer sand: The sand which is in most state is known as greensand. St contains 5 to 8%, 84 water and 16to sor, of May . Et con Rotain any shope are has good damping capacity it is soft, light and porous it is used for simple 'mow and medium size carting. the would made out of this pard is called green gard mould. The moulding sand is prepared indry stage. If the mould . is formed by the dry sand it is called dry sand mould . my sand is is used for mating large casting this mould does cause defects due to moisture this mould has greater strength and ngedily . se is called skindry mould. 3. Facingsord: mostly the facing sand is used pirectly to cover the surface of the pattern and comes contact with molten metal.

At contains Clay tale quaptite plumbage etc Facing and
must have high refactorinen strength. 4 - Loans sard Loam sand consists of fine silica sand afine Refactories, clay, graphite, filive and wave contains as much as clay around son Loan sara becomes have when it is pried. It is for metting large casting such as hell reoller, pulley etc. 5 Backing sands The sand which is used to back-up the facing sand and to Aid the whole volume of mould hor is called hacking land. the old sand may be repeatedly used for this purpose.



6-parting som	d:	a displace	
up of tw	ng sand is useally of halves with cop	e and alog. To	inkled over the
parting sur	face of cope and truck powder avoid sticking o	The The soll	inteled over the
properties			
1 PO10S	Hy or permeability		
permeabi the steam	and gases to particulation of the mould and store the mould and the mould are the mould are the store of the	moulding sand by through it w	ses are formed
Sand .	14 the samo	gases are	prent . Even th
will not gases . I	escape through escape through in the absence face blows 19a	of permeability holes retain	the defects since the experience
101	quality and quo	ntity of clars	ard quartz,
(h)	moisture conte	nt.	a colored la
(e)	pegree of con	practness.	
of moulding	owing parameter s	which affects	the permeability
of wooder	the clay Content	isless the peri	meability of moule
sand. af	the grain stz	ns larger the pern	neohility will be
more and	tice versa.		1. 11 2
> Col	s veryming trap	rover the perme	ibility.
» +11g	ther is the silica	tontent on son	a, lowawiu
he p	ermeability.	(2)	TOTAL PROPERTY.
The state of			



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2. plasticity or flow ability:

It is Ability of moulding sand to get comported to a uniform density. Flow ability assit the moulding sand to flow and pack all around the pattern and lake up the Required Shape thus, it gives the shape of the pattern and Petains the Shape after Pemoving the pattern. The property may be improved by adding Clay and water to silica cand.

3. Adhesiveness:

This is the property moulding sand by which it stricks or ather to another body. The moulding sand should eling or stick to the sides of moulding boxes. This property depends on the type and amount moder wedin the sand mix. Addition of day and moisture increase the adhesivener.

- 4. Strength or cohesiveress.

 At is the property of moulding sand by which it stick together. A moulding sand have sufficient strength so that the mortal does not compreor get partially damage shifting, turning or pouring the motten metal. Recause of powning the molten metal cavity.
 - (a) Grain size and Mage
 - ub) moisture content.
 - (c) Density of hard after farming.

5 . Refactoriness:

This is the property of moulding sand to with sand the temperature of the molten to be paured so that it does not get cracked and fued with the motal or expansive any physical transage. Rough and large grain and quartit content in moulding sand large grain and quartit content in moulding sand Increases the refractorines poor refractorines will result the rough Surface in casting.



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6. couapsibility:

This is property at the moulding dand to decreases in redune to some extend under the compre force developed my the chrinkage of metal during and sumequent cooling, this property permits the moulding sand to collapse easily ofter the carting soliding if the mould or core does not collapse it may restri the free contraction of the lolidy-fing material and Causes was on the eating this property depend one amount of quartz and hinders.

2 Wishrinkage Allowanoce: -

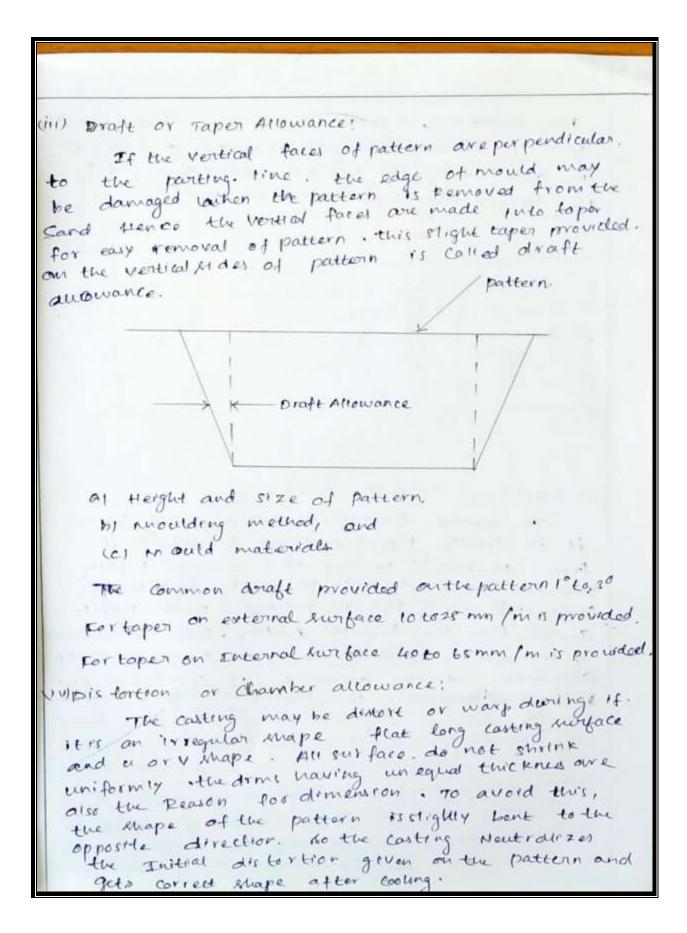
The metal shirk on the soldifical ion and control further on cooling to room temperature to compensate it. the pattern is made larger than the raquired carting, this extra size provided on the pattern for metal whrintage is called shrinkage Allowance. If it is not given the carting will become maller after it is con -for type .

iii) Machining or frutching Anowances

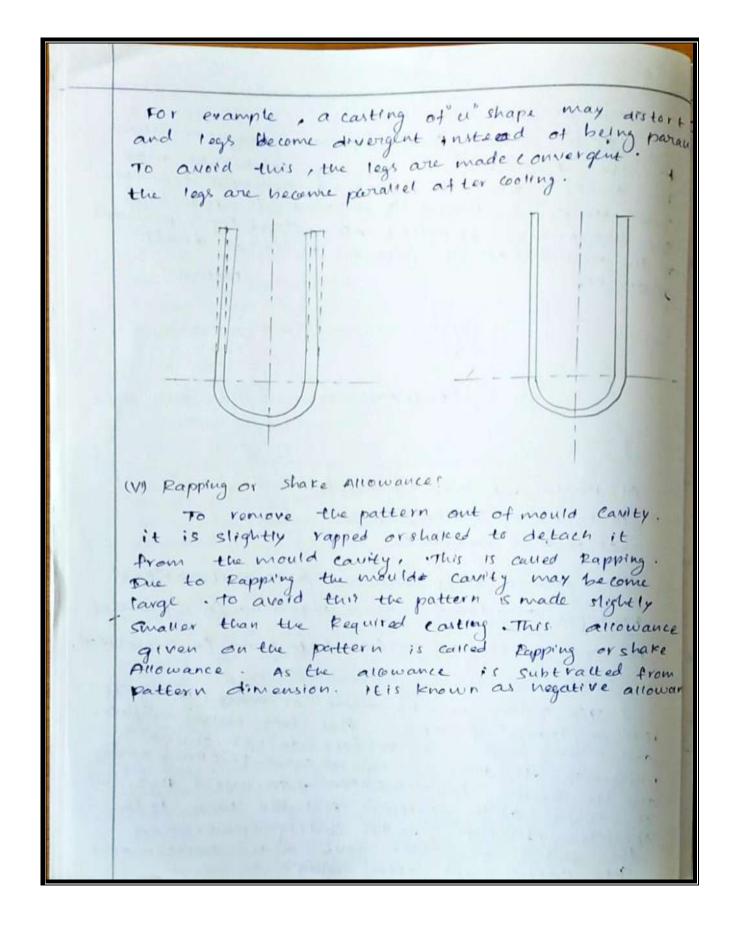
Au casting are to be machined to get the requ on the metal . During machining . some surface frich of the metals are removed from the carting for the pur pose the pattern is made larger than the kiguird easing this extra size given to the puttern for machining purpose is caused machining or fini allowance ..

The amount of finish a nowance do pends. on the material of the carting, it to od carting. volume of modulation, method of moulding configuration of the casting, method of maching degree of finishing etc. machining allowance it Always larger to hard moulding, when comp to machine moulding.

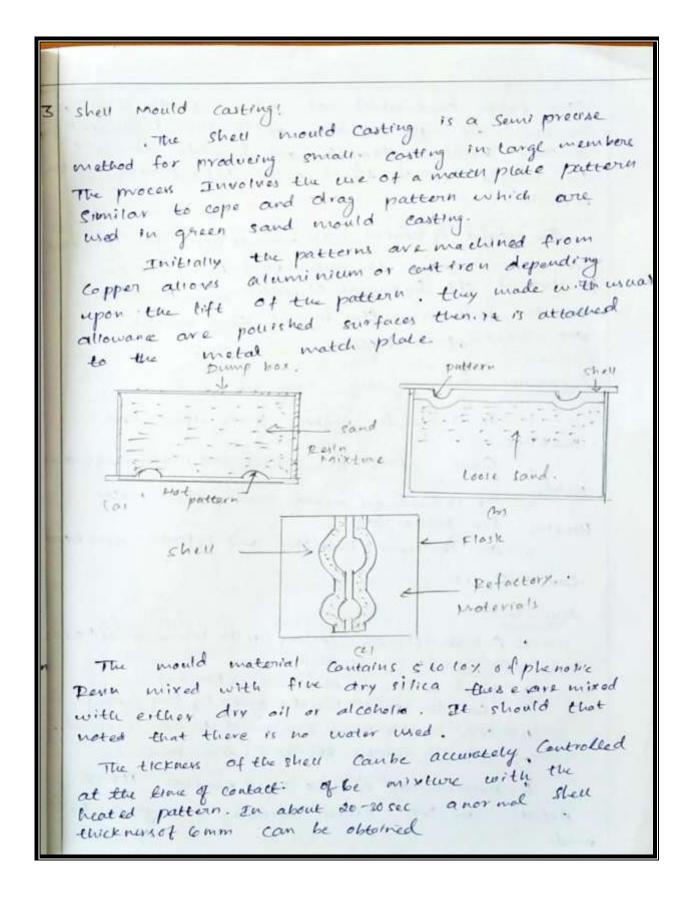














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The extra sand which not adhered to the sheu Pomoved off - the -thick new of the show is depending on the Required strength and tigidity to hold the weight of the liquid metal to be poured intoth would. the mould is heated in an oven at 200°C for 15-605e. This coursing makes the shell rigid when it can be stropped oft by means of ejector pins mounted on the pattern the formed their paretrates one half of the wetal Application! 1. It is used for making brake drums and 2. Cams , camehalt printen and piston rings on 3. It is used for making small pulleys motor Howing for made etc. 4 - Air Commensor Deservoir and cylinders scranker Con veyor . etc. Advantager! 1. A high accuracy carting with tolerance ofton to 0.005 mm/ mm is possible 2. Good surface fruits can be obtained 3. Complen parts can be made by this without 4. tess sands used compared to othe methods. r. would can be stored for long time 6. permeability of this shou moulds Ishiph defects are less. Better equality carrings can be made



4	
	Cupila construction! > cupola essentially country of a tylindrical steel shell limed on the misside with tefactory tricks. > The entire structure is supported on legs and is open at top and bottom when not in the > At the bottom of ore are provided which can be closed and drapped to propose a hearth for burning coke. > This Height Decides may be less if the cupola is fitted with a facelver and the metal Is continuely fitted with a facelver and the metal Is continuely dvained form the tupe la > Appears so to isomm above the stag hole are opportings through the sheet into the cupola shaft accept tuyers > These typers are provided around the shell in one or more fours to provide a balanced supply of air. > Air is supplied into the wind box from a blocusert pipe. > The cupola shaft extends further up from the wind box to a charging platform. > The cupola shaft extends further up from the wind box to a charging platform. > The works to give channey effect for natural chrotic in the other thmousions of the cupola are empirically. The other thmousions of the cupola are empirically.



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working ! A typical operation cycle for a cupela would consist of closing and propping the bottom singed doors and preparing a hearth bottom. The bottom is usually made from low strength moulding Sand and slopes towards a tapping hole. Aftre is started in the hearth using light meight trimber coke is charged on the top of the fire and is theret by Increasing the air draught- from the tuyers As the metal is melted and firel consumed topped out into a maiting ladle or societies, At the and of the melting campaign, changing is stopped but the air blast is maintained until all of the metal is melted and tapped off the air is then turned off and the bottom doors opened affouring the Residual charge material to be dumped.