Mechanism to deal with examination related grievances is transparent, time- bound and efficient

Continuous Internal Evaluation

1. Academic Calendar

2. Exam policies for Continuous Internal Evaluation (CIE)

3. Class Committee Meeting (Before start of Internal Assessment)

4. Assessment Examination Time Table on Department Notice Board and Individual class notice board

5. Sample of All CIE Question
6. Answer scripts correction and distribution

7. Collection Grievances from student and Corrected answer scripts distribution

8. Marks statement on Department Notice Board and Individual class notice board

9. Student requisition letter for re-examination

10. Remedial classes and Re-examination grievance

11. Retest consolidate mark sheet

12. Assignments submission

13. Phase Mark and Attendance entry to the Anna University Web portal

University Examination Processes

14. University Exam Theory/Practical Time table on Department Notice Board and Individual class notice board/sample university question

15. University Exam results published Anna University

16. Circular for Photocopy application

17. Collection of Application forms from students for photocopy of answer scripts

18. Sample Photocopy

19. Revaluation photocopy evaluated by Internal staff

20. Circular for Revaluation application

21. Application of Revaluation (After Recommendation from Internal staff)

22. Revaluation result published Anna University

23. Circular for Challenge revaluation on Department Notice Board

24. Collection of Application forms from students for challenge revaluation

25. Challenge Revaluation result published Anna University

1. Academic Calendar

For all academic year: **http://www.dgct.ac.in/naac/academic-calendar/**

Academic Calendar – 2019 – 20 (ODD Semester)

DGCT - ODD SEMESTER TENTATIVE ACADEMIC PLANNER 2019-20 FOR I, II, III & IV YEAR   wef. 01.07.2019

	JULY			AUG			SEP			OCT			NOV			DEC			JAN	
1	MON	Reopening Classes for II,III & IV yr	1	THU		1	SUN	Holiday	1	TUE	ICT - II	1	FRI		1	SUN	Holiday	1	WED	
2	TUE		2	FRI		2	MON	Vinayakar Chaturthi	2	WED	Gandhi Jayanthi	2	SAT		2	MON		2	THU	
3	WED		3	SAT		3	TUE		3	THU		3	SUN	Holiday	3	TUE		3	FRI	
4	THU		4	SUN	Holiday	4	WED		4	FRI	Syallabus Completion	4	MON		4	WED		4	SAT	
5	FRI		5	MON		5	THU		5	SAT		5	TUE		5	THU		5	SUN	Holiday
6	SAT		6	TUE		6	FRI		6	SUN	Holiday	6	WED	University Theory starts	6	FRI		6	MON	
7	SUN	Holiday	7	WED		7	SAT		7	MON	Pooja Holidays	7	THU		7	SAT		7	TUE	
8	MON		8	THU	Local Festival	8	SUN	Holiday	8	TUE	Pooja Holidays	8	FRI		8	SUN	Holiday	8	WED	
9	TUE		9	FRI		9	MON		9	WED	Model Theory Starts	9	SAT		9	MON		9	THU	
10	WED		10	SAT		10	TUE	Moharam	10	THU		10	SUN	Miladi Nabi	10	TUE		10	FRI	
11	THU		11	SUN	Holiday	11	WED		11	FRI		11	MON		11	WED		11	SAT	
12	FRI		12	MON	Bakrid	12	THU		12	SAT		12	TUE		12	THU		12	SUN	Holiday
13	SAT		13	TUE		13	FRI		13	SUN	Holiday	13	WED		13	FRI		13	MON	
14	SUN	Holiday	14	WED		14	SAT		14	MON		14	THU		14	SAT		14	TUE	Bhogi
15	MON		15	THU	Independence Day	15	SUN	Holiday	15	TUE	Model Theory End	15	FRI		15	SUN	Holiday	15	WED	Pongal
16	TUE		16	FRI		16	MON		16	WED		16	SAT		16	MON		16	THU	Thiruvalluvar Day
17	WED		17	SAT		17	TUE		17	THU	Model Lab	17	SUN	Holiday	17	TUE		17	FRI	Uzhavar Thirunal
18	THU		18	SUN	Holiday	18	WED	ICT - I	18	FRI		18	MON		18	WED		18	SAT	
19	FRI		19	MON		19	THU		19	SAT		19	TUE		19	THU		19	SUN	Holiday
20	SAT		20	TUE		20	FRI		20	SUN	Holiday	20	WED		20	FRI		20	MON	
21	SUN	Holiday	21	WED	CT- II	21	SAT		21	MON		21	THU		21	SAT		21	TUE	
22	MON		22	THU		22	SUN	Holiday	22	TUE	University Practical	22	FRI		22	SUN	Holiday	22	WED	
23	TUE	CT- I	23	FRI	Krishna Jayanthi	23	MON	Lab to be Completed	23	WED		23	SAT		23	MON		23	THU	
24	WED		24	SAT		24	TUE	Lab to be Completed	24	THU		24	SUN	Holiday	24	TUE		24	FRI	
25	THU		25	SUN	Holiday	25	WED	ICT- II	25	FRI		25	MON		25	WED	Christmas	25	SAT	
26	FRI		26	MON		26	THU		26	SAT		26	TUE		26	THU		26	SUN	Republic Day
27	SAT		27	TUE		27	FRI		27	SUN	Deepavali	27	WED		27	FRI		27	MON	
28	SUN	Holiday	28	WED		28	SAT		28	MON		28	THU		28	SAT		28	TUE	
29	MON		29	THU		29	SUN	Holiday	29	TUE		29	FRI		29	SUN	Holiday	29	WED	
30	TUE		30	FRI		30	MON	ICT - II	30	WED		30	SAT		30	MON		30	THU	
31	WED		31	SAT					31	THU					31	TUE		31	FRI	

Cycle Test - 1 = 18 Working days - 1.5 units

Cycle Test - 2 = 20 Working days - 2 units

Intensive Coaching = 17 Working days - 1.5 units

No of working day including exams 80 days

No of working day excluding exams 60

ICT - 1 = 2.5 units or 3 units

ICT - 2 = 2.5 units or 2 units

Model Exam = 5 units

No. of Working days :   80 days   HoD meeting on every WEDNESDAY @ 11:30 am | Conduct competition for students, like- Quiz, Code debugging, Circuit Debugging, etc.,

Academic Calendar – 2019 – 20 (Even Semester)

DGCT - EVEN SEMESTER ACADEMIC PLANNER 2019-20 for I, II ,III & IV Year B.E | **wef. 02.01.2020**

NOV			DEC			JAN			FEB			MAR			APR			MaY			JUNE		
1	FRI		1	SUN	Holiday	1	WED	New Year	1	SAT		1	SUN	Holiday	1	WED	AU Exam Practical	1	FRI	May Day	1	MON	
2	SAT		2	MON		2	THU	II,III,IV Reopens	2	SUN	Working Day	2	MON		2	THU		2	SAT		2	TUE	
3	SUN	Holiday	3	TUE		3	FRI		3	MON		3	TUE		3	FRI	Model –I Start	3	SUN	Holiday	3	WED	
4	MON		4	WED		4	SAT		4	TUE		4	WED		4	SAT		4	MON		4	THU	
5	TUE		5	THU		5	SUN	Holiday	5	WED		5	THU		5	SUN	Holiday	5	TUE		5	FRI	
6	WED		6	FRI		6	MON		6	THU		6	FRI		6	MON	Mahaveer Jayanthi	6	WED		6	SAT	
7	THU		7	SAT		7	TUE		7	FRI		7	SAT		7	TUE		7	THU		7	SUN	Holiday
8	FRI		8	SUN	Holiday	8	WED		8	SAT		8	SUN	Holiday	8	WED	Model Exam	8	FRI		8	MON	
9	SAT		9	MON		9	THU		9	SUN	Working Day	9	MON		9	THU		9	SAT		9	TUE	
10	SUN	Miladi Nabi	10	TUE		10	FRI		10	MON		10	TUE		10	FRI	Good Friday	10	SUN	Holiday	10	WED	
11	MON		11	WED		11	SAT	Nakshatra / Staff Day	11	TUE		11	WED	ICT- I II,III,IV	11	SAT	Model - I End / Placement Day	11	MON		11	THU	
12	TUE		12	THU		12	SUN		12	WED		12	THU		12	SUN	Holiday	12	TUE		12	FRI	
13	WED		13	FRI		13	MON		13	THU		13	FRI		13	MON		13	WED		13	SAT	
14	THU		14	SAT		14	TUE		14	FRI		14	SAT		14	TUE	Tamil New Year	14	THU		14	SUN	Holiday
15	FRI		15	SUN	Holiday	15	WED	Pongal Holidays	15	SAT	Symposium	15	SUN	Holiday	15	WED		15	FRI		15	MON	
16	SAT		16	MON		16	THU		16	SUN	Holiday	16	MON		16	THU		16	SAT	Gradution Day	16	TUE	
17	SUN	Holiday	17	TUE		17	FRI		17	MON		17	TUE		17	FRI	AU Theory Exam Start	17	SUN	Holiday	17	WED	
18	MON		18	WED		18	SAT		18	TUE		18	WED	ICT- II II,III,IV	18	SAT		18	MON		18	THU	
19	TUE		19	THU	VAP Class	19	SUN		19	WED		19	THU		19	SUN	Holiday	19	TUE		19	FRI	
20	WED		20	FRI		20	MON		20	THU		20	FRI		20	MON		20	WED		20	SAT	
21	THU		21	SAT		21	TUE		21	FRI		21	SAT		21	TUE		21	THU		21	SUN	Holiday
22	FRI		22	SUN		22	WED		22	SAT		22	SUN	Holiday	22	WED		22	FRI		22	MON	
23	SAT		23	MON		23	THU		23	SUN	Holiday	23	MON		23	THU		23	SAT		23	TUE	
24	SUN	Holiday	24	TUE		24	FRI		24	MON		24	TUE	Model Practical	24	FRI		24	SUN	Holiday	24	WED	
25	MON		25	WED		25	SAT		25	TUE	CT- II II,III,IV	25	WED		25	SAT		25	MON	Ramzan	25	THU	Holiday
26	TUE		26	THU	Rural Local Body Election Holidays	26	SUN	Republic Day	26	WED		26	THU	Ugadhi	26	SUN	Holiday	26	TUE		26	FRI	
27	WED		27	FRI		27	MON		27	THU		27	FRI	Last Working Day	27	MON		27	WED		27	SAT	
28	THU		28	SAT		28	TUE	CT- I II,III,IV	28	FRI		28	SAT	Achievers Day/Cultural Day	28	TUE		28	THU		28	SUN	Holiday
29	FRI		29	SUN		29	WED		29	SAT	National Conference	29	SUN	Holiday	29	WED		29	FRI		29	MON	
30	SAT		30	MON		30	THU					30	MON	AU Exam Practical	30	THU		30	SAT		30	TUE	
			31	TUE		31	FRI					31	TUE					31	SUN	Holiday			

Cycle Test - 1 =13 Working Day-1.5 Units	No of Working Days including Exams 67 Days	ICT- 1 = 2.5 units or 3 units
Cycle Test - 2 = 17 Working Days-2 Units	No of Working Days excluding Exams 39 Days	ICT- 2 = 2.5 units or 2 units
Itensive Coaching = 11 Working Days-1.5 Units		Model Exam =5 Units
No.of Working days: 67 Days		

1. Exam policies for Continuous Internal Evaluation (CIE)

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY
SALEM-636309

05.06.2019

Academic Year - 2019-20

Rules and Regulations of Continuous Internal Evaluation

The continuous internal assessment system for the students of any semester shallcompraise Cycle tests, Intensive coaching tests and Model Examination. Internal marks will be 20 marks and end semester examination for 80 marks.

Essential features of Internal Assessment Tests system

- There will be two CTs for 2 hours of 60 marks, two Intensive coaching tests and one model exam for 3 hours out of 100 marks per course for all the programmes are conducted in a semester.
- Each cycle test consists of ten 2 mark questions, two 13 mark questions of either or type and one compulsory question of 14 marks.
- Each Intensive coaching test consists of ten 2 mark questions, five 13 mark questions of either or type and one compulsory question of 15 marks.
- Model exam consists of ten 2 mark questions, five 13 mark questions of either or type and one compulsory question of 15 marks.
- Questions for the tests will assess student achievement of the Course outcomes (COs) related to the units concerned.
- All the questions shall be in conformity with the level of Bloom's Taxonomy that the Cos indicates. (The Cos shall relate to a minimum of four levels of Bloom Levels).
- One test cycle represents six subject tests, one each for six theory course, in a semester for all UG programmes.
- The best mark among two cycle tests is to be taken for Internal assessment I. The best marks among two Intensive coaching tests is to be taken for Internal assessment II. Marks obtained from the model examination is to be taken as Internal assessment III. The concerned course faculty has to enter IAT marks into the Anna University COE web portal on or before the stipulated dates.
- The failures and absentees (for genuine reasons) are to be allowed to write retests, assignments etc.
- For Practical subjects model practical examinations are conducted before the university exam as same like end semester practical examination.
- For project work, three reviews are conducted at periodic intervals to ensure and evaluate the work carried out by the students.

Principal

Exam policies for CIE on Notice Board

2. Class Committee Meeting (Before start of Internal Assessment)

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, Salem 636 309

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 23.01.2020

This is to inform that the First Class Committee Meeting for II-A Section will be conducting on 24.01.2020 **(Friday)** in the Department Conference Hall at 11am. The following faculties and student representatives are instructed to attend the meeting without fail.

Chair Person: Mr.T.Jayachandran, AP/Mech.

S.No	Name of the Subject	Name of the staff	Signature
1	Statistics and Numerical Methods	Mr.P.R.Karthik	
2	Kinematics of Machinery	Mr.M.Chandru	
3	Manufacturing Technology – II	Mr.R.Ranjith Kumar	
4	Engineering Metallurgy	Dr.P.Parandaman	
5	Strength of Materials for Mechanical Engineers	Mr.N.Panneerselvam	
6	Thermal Engineering-I	Mr.R.Manikandan	
7	Manufacturing Technology Laboratory – II	Mr.T.Jayachandran Mr.R.Manikandan	
8	Strength of Materials and Fluid Mechanics and Machinery Laboratory	SOM - Mr.N.Panneerselvam / Mr.A.Inbasekaran FMM - Mr.M.Sivasankaran	
9	Advanced Reading and Writing	Ms.Menaka AP/Eng	

Student representatives

Bharath.R	R.Bharath .	Kamaleshkumar.A	
Gokulakrishnan.M	MGokilaki	Komagan.M.U	Informed to student.
Mohammed Salmaan.H	Informed to student	Sankavi Preetha.D.P	DP Sankavipath

Class Advisors: Mr.N.Panneerselvam. SAP /Mech
                Mr.G.Madhankumar AP/Mech

Class Chair Person

Copy to:

    1.HOD Mech

    2.Class Advisor

    3.Notice Board

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, Salem 636 309

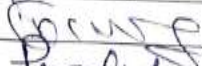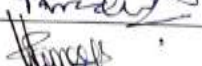**DEPARTMENT OF MECHANICAL ENGINEERING**
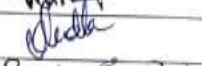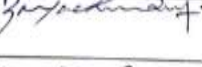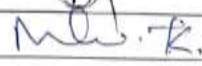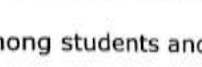
Class Committee Meeting –I

Report   24.01.2020

II Year / IV Sem – 'A' Sec

Class Advisors: Mr.N.Panneerselvam. SAP /Mech   Chair Person: Mr.T.Jayachandran, AP/Mech.

Mr.G.Madhankumar AP/Mech

S.No	Name of the Subject	Name of the staff	Signature
1	Statistics and Numerical Methods	Mr.P.R.Karthik	
2	Kinematics of Machinery	Mr.M.Chandru	
3	Manufacturing Technology – II	Mr.R.Ranjith Kumar	
4	Engineering Metallurgy	Dr.P.Parandaman	
5	Strength of Materials for Mechanical Engineers	Mr.N.Panneerselvam	
6	Thermal Engineering-I	Mr.R.Manikandan	
7	Manufacturing Technology Laboratory – II	Mr.T.Jayachandran Mr.R.Manikandan	
8	Strength of Materials and Fluid Mechanics and Machinery Laboratory	SOM - Mr.N.Panneerselvam / Mr.A.Inbasekaran FMM - Mr.M.Sivasankaran	
9	Advanced Reading and Writing	Ms.Menaka AP/Eng	

During the class committee meeting the following points has been discussed among students and staff members.

➢ Students Discipline
➢ Difficulties in Subjects.
➢ Syllabus Completion
➢ Students Dress Code

➢ Parents Meeting
➢ Difficulties in Subjects
➢ Student Attendance .

Statistics and Numerical Methods	Unit 1 Completed, QB given.
Kinematics of Machinery	Unit 1 completed, QB given
Manufacturing Technology – II	Unit 1 completed, QB give
Engineering Metallurgy	80% Completed - Unit 1.
Strength of Materials for Mechanical Engineers	Unit 1 completed. QB given
Thermal Engineering-I	80% completed Unit - 1, QB given
Manufacturing Technology Laboratory – II	40% completed.
Strength of Materials and Fluid Mechanics and Machinery Laboratory	40% completed.
Advanced Reading and Writing	75% completed in unit - 1

3. Assessment Examination Time Table on Department Notice Board and Individual class notice board

Dhirajlal Gandhi College of Technology Salem-636309
DEPARTMENT OF MECHANICAL ENGINEERING

2019-2020 (EVEN SEM) – INTENSIVE COACHING – II

Coaching Timing	Test Timing (3 Hours)
FN: 9.00 a.m. to 12.30 p.m.	FN: 1.45 p.m. to 4.45 p.m.

INTENSIVE COACHING- I Date	II Year Sub. Code/ Name Sec - A	Sub. Code/ Name Sec - B	III Year Sub. Code/ Name Sec - A	Sub. Code/ Name Sec - B
16.03.2020	MA8452 /Statistics and Numerical Methods Mr.P.R.Karthik AP/MATHS	CE8395 /Strength of Materials for Mechanical Engineers Mr.P.Sathiskumar AP/MECH	Professional Elective–I (ME8091- Automobile Engg.- Mr.G.Madhankumar, AP/MECH / PR8592 -Welding Technology- Mr.N.Panneerselvam, SAP/MECH)	
17.03.2020	ME8493 /Thermal Engineering- I Mr.R.Manikandan, AP/MECH	ME8493 /Thermal Engineering- I Mr.C.Palani, AP/MECH	ME8692/Finite Element Analysis Mr.N.Maniselvam, AP/MECH	ME8651/Design of Transmission Systems Mr.T.Jayachandran, AP/MECH
18.03.2020	ME8492 /Kinematics of Machinery Mr.M.Chandru, SAP/MECH	ME8491 /Engineering Metallurgy Mr.N.Maniselvam, AP/MECH	ME8651/Design of Transmission Systems Mr.U.T.Vinothraj, AP/MECH	ME6603/Finite Element Analysis Dr.P.Parandaman ASP/MECH
19.03.2020	CE8395 /Strength of Materials for Mechanical Engineers Mr.N.Panneerselvam, SAP/MECH	ME8492 /Kinematics of Machinery Mr.A.Inbasekaran AP/MECH	ME8693 / Heat and Mass Transfer Mr.S.Krishnan, ASP/MECH	ME8694 / Hydraulics and Pneumatics Mr.M.Sivasankaran, SAP/MECH
20.03.2020	ME8451 / Manufacturing Technology–II Mr.R.Ranjithkumar AP/MECH	MA8452 /Statistics and Numerical Methods Mr.P.R.Karthik AP/MATHS	ME8694 / Hydraulics and Pneumatics Mr.C.Palani, AP/MECH	ME8693 / Heat and Mass Transfer Dr.P.Senthilkumar ASP/MECH
21.03.2020	ME8491 /Engineering Metallurgy Dr.P.Parandaman ASP/MECH	ME8451 /Manufacturing Technology–II Mr.G.Madhankumar, AP/MECH	ME8691 / Computer Aided Design and Manufacturing Mr.R.Ranjithkumar AP/MECH	ME8691 / Computer Aided Design and Manufacturing Mr.A.Inbasekaran AP/MECH

Exam Coordinator

HOD/Mech

Principal

CIE Question format forthcoming years

CIE Question format as per AICTE Examination Reforms
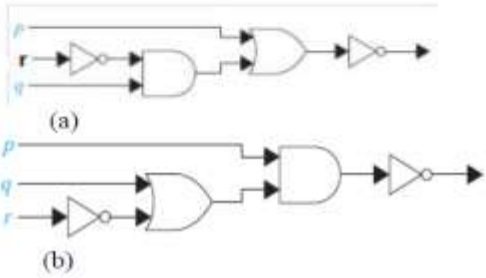
DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY,SALEM
Department of Computer Science and Engineering

Year/Sem	III/V	Time	2 Hrs
Max. Marks	60	Date	

Model Examination

Discrete Mathematical Structures

Note: Answer Any two questions from UNIT I, UNIT II and one question from UNIT III

Q.No	Questions	Marks	CO	BL	PI
	UNIT I				

1a	In asynchronous transfer mode (ATM), data are organized into cells of 53 bytes. Identify the range (number of ATM cells transmitted) for the domain (minutes) set M={1, 2, 3, 4, 5, 6} if connection that transmits data at the rate of
	  i) 128 kilobits per second
	  ii) 300 kilobits per second
	  iii) 1 megabit per second
		10	CO2	L3	1.1.1

1b	Write the propositions for the following English statements.
	
	To use the wireless network in the airport you must pay the daily fee unless you are a subscriber to the service.
	
	Express your answer in terms of
	
	  w: You can use the wireless network in the airport.
	  d: You pay the daily fee. and
	  s: You are a subscriber to the service.
		5	CO 1	L3	1.1.1

1c	Let p,q and r be the propositions
	P: You have attended cultural audition.
	q: You miss the first minor exam.
	r: You will not get the make-up exam.
	Express each of these propositions as an English sentence
	  i) $(p \rightarrow \neg r) \lor (q \rightarrow \neg r)$
	  ii) $(p \land q) \lor (\neg q \land r)$
	  iii) $\neg q \leftrightarrow r$
		5	CO1	L2	1.1.1

Q.No	Questions	Marks	CO	BL	PI
2a	Let A, B, and C be sets. Show that $\overline{A \cup (B \cap C)} = (\bar{C} \cup \bar{B}) \cap \bar{A}$	5	CO 2	L2	1.1.1
2b	Consider the following system specifications using the propositions "The message is scanned for viruses" or "The message was sent from an unknown system" "When a message is not sent from an unknown system it is not scanned for viruses." "The message is scanned for viruses" Is the specification consistent? Justify your answer	5	CO 1	L3	1.1.1
2c	Consider the combinatorial circuit shown in below figure and answer the following. (a) (b) 1. Find the output of combinatorial circuits (a) and (b). 2. Write the simplified form of negation of the output. 3. Assume appropriate p, q and r and express the output in English sentence.	10	CO1	L3	1.1.1
3a	Let f, g, h be functions from $\mathbf{R} \to \mathbf{R}$ where $f(x)=x^2$, $g(x) =x+5$ and $h(x) =\sqrt{x^2 +2}$. Determine $((h \circ g) \circ f)(x)$.	5	CO 2	L2	1.1.1
3b	Identify which of the following propositional statements are tautology using laws of equivalence. i) $[p \vee q \vee (\neg p \wedge \neg q \wedge r)] \longleftrightarrow (p \vee q \vee r)$ ii) $\neg (p \to q) \to \neg q$	10	CO 1	L3	1.1.1
3c	State whether the following statements are true or false i) Every infinite sets are countable ii) Every relation is not necessarily function iii) What time is it? is a proposition iv) Every bijective functions are inverse functions v) $(f \circ g)(a) = f(g(a))$.	5	CO 2	L3	1.1.1
	UNIT II				
4a	Suppose that at some future time every telephone in the world is assigned a number that contains a country code 1 to 3 digits long, that is, of the form X, XX, or XXX, followed by a 10-digit telephone	6	CO4	L3	1.1.1

Q.No	Questions	Marks	CO	BL	PI
	number of the form NXX-NXX-XXXX. How many different telephone numbers would be available worldwide under this numbering plan?				
b	How many positive integers between 100 and 999 inclusive i) are divisible by 7? ii) are not divisible by 4? iii) are divisible by 3 and 4? iv) are divisible by 3 or 4? v) are divisible by 3 but not by 4 and 7?	8	CO4	L3	1.1.1
c	For the relations R_1={(a,b), (a,c), (b,d), (d,d)} and R_2={(a,a), (a,d), (b,a), (b,b), (c,e), (d,d), } on sets {a,b,c,d,e} to {a,b,c,d,e} determine $R_2 \circ R_1$. Represent the output relation using directed graph.	6	CO3	L2	1.1.1
5a	Consider the following relation R={(1,1),(1,2),(1,3),(1,4),(2,2),(2,3),(2,4),(3,3),(3,4),(4,4)} defined over the set S={1,2,3,4} i) Is (S,R) is a Poset? Justify your answer. ii) Is (S,R) Linearly ordered? Justify your answer. iii) Is (S,R) Well-ordered? Justify your answer. iv) Identify the minimal, maximal, greatest and least elements v) Identify the lower bound and upper bound for the set {3}and also find the least upper bound and greatest lower bound.	10	CO3	L3	1.1.1
b	In how many possible orders a student can answer 5 questions in the SEE exams considering the following conditions i) There are 3 units UNIT1, UNIT2 and UNIT3 consisting of 3, 3 and 2 questions respectively. ii) Student has to answer 2 questions from UNIT 1 , 2 questions from UNIT 2 and one from UINIT 3	6	CO4	L2	1.1.1
c	In order to conduct the SEE examination, In how many ways seating arrangement can be made for 240 CS students and 240 EC students such that CS and EC students should sit alternatively.	4	CO4	L3	1.1.1
6a	School of Computer Science and Engineering is planning to create a Computer network lab of 15 computers. In how many ways every computer is connected to every other computer for each of the following assumptions. i) Every computer is implicitly connected to itself ii) Every computer is explicitly connected to itself iii) Every connection is one-way communication iv) Every connection is two-way communication	8	CO4	L3	1.1.1

Q.No	Questions	Marks	CO	BL	PI
b	Let R be the relation on the set of people with doctorates such that (a, b) ∈ R if and only if 'a' was the thesis advisor of 'b'. When is an ordered pair (a, b) in R^2? When is an ordered pair (a, b) in R^n, when n is a positive integer? (Assume that every person with a doctorate has a thesis advisor.)	8	CO3	L3	1.1.1
c	Let R1 and R2 be the "congruent modulo 3" and the "congruent modulo 4" relations, respectively, on the set of integers. That is, R1 = {(a, b) | a ≡ b (mod 3)} and R2 = {(a, b) | a ≡ b (mod 4)}. Find i) R1 U R2. ii) R1 ∩ R2. iii) R1 − R2. iv) R2 − R1.	4	CO3	L2	1.1.1
	UNIT III				
7a	A vending machine dispensing books of stamps accepts only one-dollar coins, $1 bills, and $5 bills. a) Find a recurrence relation for the number of ways to deposit n dollars in the vending machine, where the order in which the coins and bills are deposited matters. b) What are the initial conditions? c) How many ways are there to deposit $10 for a book of stamps?	6	CO5	L3	1.1.2
b	Solve these recurrence relations together with the initial conditions given. i. $a_n = 2a_{n-1}$ for n ≥ 1, $a_0 = 3$ ii. $a_n = a_{n-1}$ for n ≥ 1, $a_0 = 2$	6	CO5	L2	1.1.2
c	a) Find a recurrence relation for the number of steps needed to solve the Tower of Hanoi puzzle. b) Show how this recurrence relation can be solved using iteration.	8	CO5	L3	1.1.2
8a	i) Check whether the binary operation * is commutative and associative on the set a) On Z, where a*b is ab b) on Z+, where a*b is a+b+2 ii) Prove or disprove the binary operation on Z+ of a*b = GCD(a,b) has the idempotent property.	8M	CO6	L3	1.1.1
b	Check whether set Z with the binary operation of subtraction is a semi group.	6M	CO6	L2	1.1.1
c	Define – i) Group ii) Rings iii) Fields give one example for each with domain as set of positive integers.	6M	CO6	L2	1.1.1
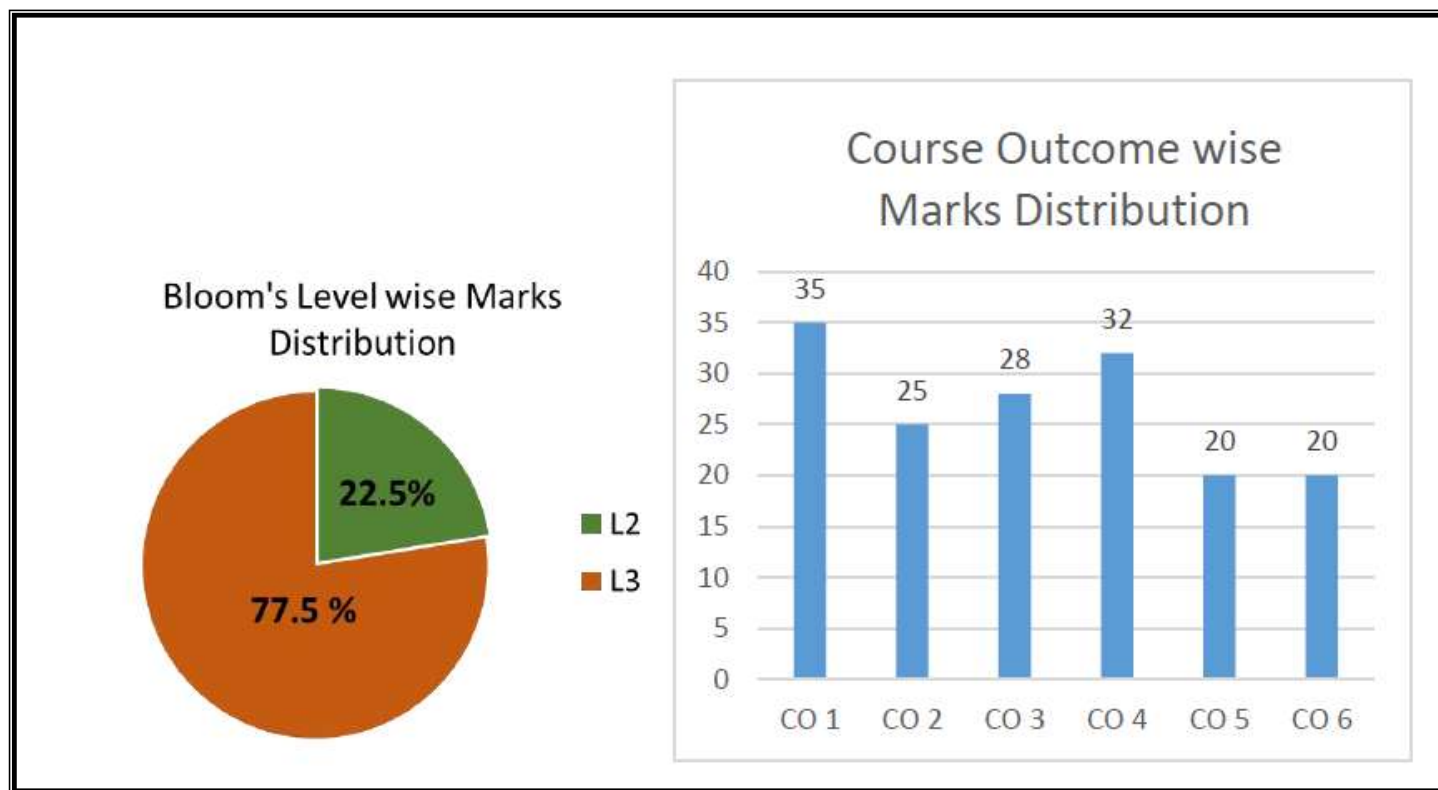
BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)
CO – Course Outcomes
PO – Program Outcomes; PI Code – Performance Indicator Code

5. All CIE Questions (for a semester) - CYCLE TEST – 1

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY,SALEM
Department of Mechanical Engineering

Year/Sem	III / VI (A &B-Sec)	Time	2 Hrs
Max.Marks	60	Date	22.07.2019 AN

CYCLE TEST-I
ME8501 – METROLOGY AND MEASUREMENTS

PART-A (Answer All Questions)   10X2=20 Marks

1. What's measurement? Give its types.
2. What are the needs of measurement?
3. What are the factors affecting the measuring system?
4. Distinguish between repeatability and reproducibility.
5. What is the difference between gauging and measurements?
6. Differentiate between accuracy and precision?
7. What is Hysteresis?
8. Define standards and classify it.
9. Differentiate between sensitivity and range with suitable example.
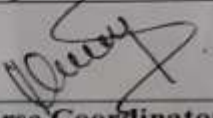10. Define threshold and calibration.
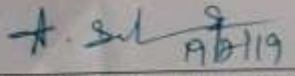
PART-B   26 Marks

11. a) Classify standard methods of measurement in details.   13

         (or)

     b) With a suitable example explain the various elements of generalized measuring systems.

12. a) Discuss in detail about the various types of limit gauges with neat sketches.   13

         (or)

     b) Explain the construction and working principle of Bevel protector with neat sketch.

PART-C   14 Marks

13. Define error? Describe the different types of errors and its causes.   14

Course Outcome	CO1	
Question No.	1-13	
Course Coordinator	Module Coordinator	HOD /Programme Coordinator

CYCLE TEST - 2

Department of Mechanical Engineering

Year/Sem:	IV/VII		Time:	2 hrs

Max. Marks: 60   Date: 20 .08.2019 AN

CYCLE TEST-II

ME 6012 – Maintenance Engineering

PART - A (Answer All Questions)   **10x2=20 Marks**

1. What is limitation of breakdown maintenance?
2. What is meant by planned maintenance approach?
3. Compare predictive maintenance and corrective maintenance (or) breakdown maintenance.
4. Write the principles of RCM. List out its benefits?
5. Mention the reasons for preventive maintenance to be adopted in the present times.
6. Define maintenance scheduling.
7. What is meant by repair cycle?
8. What are the principles of lubrication? Or Why do you need lubrication
9. What is TPM? Give the benefits
10. What is meant by downtime scheduling?

PART-B   **3x13=39 Marks**

11.a   What are the steps involved in preventive maintenance? Why preventive   **13**
       maintenance is better than reactive maintenance?

(OR)

  b   (i) Discuss in brief the roles of various stakeholders of maintenance   **7**
           scheduling communication chain?
      (ii) List and explain the sequence activities carried out in machine   **6**
           shutdown operations.

12.a   (i) With a suitable example illustrate Repair Cycle.   **3**
       (ii) Explain the importance of lubrication. Explain mehods of
            lubrication system with suitable sketch.   **10**

(OR)

  b   Explain various stages involved in implementation of TPM. And Discuss
      about pillars of TPM

PART-C   **1x14=14 Marks**

13.a   Explain the various types of maintenance approach with neat   sketch.   **14**

Course Outcome	CO 2
Question No.	1-14

Course Coordinator	Course Coordinator	HOD/Program Coordinator

INTENSIVE COACHING TEST – 1

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY,SALEM
Department of Mechanical Engineering

Year/Sem	II/3	Time	3 hrs
Max.Marks	100	Date	20.09.2019

INTENSIVE COACHING-I
CE 6451 FLUID MECHANICS AND MACHINERY

PART-A (Answer All Questions)   **10X2=10 Marks**

1 Define laminar or turbulent boundary layer and also write the factors affecting the growth of boundary layer.

2 State the reasons for avoding boundary layer separation. or Define Drag and lift.

3 What is priming? Why it is necessary?

4 Define Manometric head and Manometric efficiency.

5 Discuss specific speed of the pump and A pump is to discharge 0.82 m3/s at a head of 42 m when running at 300 rpm. What type of will be required?

6 What is cavitation in centrifugal pump? And write the effect of cavitation.

7 Define NPSH.

8 Define Slip, percentage of slip and negative slip with reasons.

9 What is an airvessel? List the functions that would be fulfil the use of airvessel.

10 What are rotary pumps? Give its classification.

PART-B
5X13=65 marks

11 a Derive theHagen poisullie equation for flow through circular pipes   13

(OR)

b (i) Explain any two types of boundary layer thickness.   5

(ii) Two tanks of fluid ($\rho = 998$ kg / m^3 and $\mu = 0.001$ Ns/m^2) at 20° C are connected by a capillary tube 4 mm in diameter and 3.5 m long. The surface of the tank 1 is 30 cm higherthan the surface of the tank 2. Estimate the flow rate in m3 / hr. Is the flow is laminar? For what tube diameter will Reynolds number be 500?   8

12 a If the velocity distribution in a laminar boundary layer over a flat plate is given by $u/U = y/\delta$, Calculate the value of $\delta^*, \theta, \delta^{**}$ and pipe sharp entry &exit.   13

(OR)

b (i) A flat plate 1.5 m x 1.5 m moves at 50 km / hr in a stationary air of density 1.15 kg/m^3. If the coefficient of drag and lift are 0.15 and 0.75 respectively. Determine (i) The lift force (ii) The drag force (iii) The resultant force and power required to set the plate in motion.   8

(ii) A smooth two dimentional flat plate is expected to a wind velocity of 100 km/hr. If the laminar boundary layer exists up to the value of $(R_e)_x$ equal to 3 x 10^5. Find the maximum distance up to which laminar boundary layer exists and find its maximum thickness. Assume kinematic viscosity of air as 1.49 x 10^{-5} m^2 / s.   5

13 a A centrifugal pump having outer diameter equal to two times the inner diameter and running 13
at 1200rpm works against a total head of 75m. The velocity of flow through the impeller is
constant and equal to 3m/s. The vanes are set back at an angle of $30°$ at outlet. If the outer
diameter of the impeller is 600mm and width at outlet is 50mm, determine
      [a] vane angle at inlet
      [b] work done per second by impeller and
      [c] manometric efficiency.

(OR)

b A centrifugal pump delivers 1565 lps against a manometric head of 6.1 m. When the impeller 13
rotates at 200 rpm. The impeller diameter is 1.22 m and the area at outer periphery is 6450
cm^2. If the vanes are setback at an angle of $26°$ at the outlet, determine
    (iii)   Manimetri efficiency
    (iv)   Power required to drive the pump
    (v)   Minimum starting speed if ratio of external to internal diameter is 2.

14 a The outer diameter of an impeller of a centrifugal pump is 800 mm and outlet width is 13
50 mm. The pump is running at 1600 rpm and is working against head of 30 m. The vanes
angle at outlet is $40°$ and Manometric efficiency is 80%. Determine (i) Velocity of flow at
outlet (ii) velocity of water leaving the vane (iii) Angle made by the absolute velocity at
outlet with the direction of motion at outlet (iv) Discharge.

(OR)

b A double acting reciprocating pump has the following data, cylinder diameter = 10 cm, 13
stroke = 15 cm, speed = 60 rpm, suction head = 3m, suction pipe is of 5 cm diameter and
4 m length calculate the absolute pressure in m of water and in kg/ cm^2 in the cylinder of the
(i) Beginning (ii) middle (iii) end of the suction stroke. Assuming f = 0.01.

15 a (i)   Explain construction and working of single acting reciprocating pump. 7
   (ii)   Explain Work done saved by airvessel for double acting reciprocating pump. 6

(OR)

b The plunger diameter and stroke length of a single acting reciprocating pump are 300 mm 13
and 50 mm respectively. The speed of the pump is 50 rpm. The diameter and length of
delivery pipe are 150 mm and 55 mm respectively. If the pump is equipped with an airvessal
on the delivery side at the centre line of the pump. Find the power saved in over coming
friction in the delivery pipe. Take friction co efficient f = 0.01.
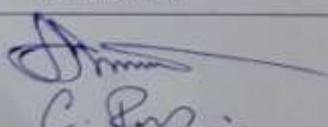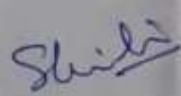
PART-C $1 \times 15 = 15$ marks

16 a (i)   Explain Gear pump/vane pump/screw pump/piston pump/lobe pump(any two) 8
   (ii) What is an indicator diagram? and Explain it. 7

(OR)

b (i)) Explain any two about performance charecteristics of centrifugal pumps. 7
   (ii) Explain the working of centrifugal pump with neat sketch. 8

Course Outcome	CO2	CO4
Question No.	1 to 2 and 11&12	3 to 10 and 13,14,15,16
Course Coordinator	Module Coordinator	HOD/Programme Coordinator

INTENSIVE COACHING TEST – 2

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM – 636 308
Department of Electrical and Electronics Engineering

Year/Sem: II / III (section A & B) Time: 3 hrs
Max. Marks: 100 Date: 30.09.2019 (AN)

ME8762 – POWER PLANT ENGINEERING
INTENSIVE COACHING TEST-II

PART - A (Answer All Questions)   10x2=20 Marks

1. What is "half life" of nuclear fuels?
2. Explain the functions of moderators.
3. Distinguish between PHWR and LMFBR
4. Define the term "Breeding".
5. Mention the various types of fast breeders.
6. What is surge tank?
7. What are the main components of Nuclear power plant?
8. What is a solar cell?
9. What are the components of Tidal power plants?
10. What are the applications of geothermal energy?

PART-B (Answer All Questions)   5x13 =65 Marks
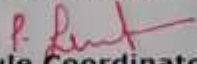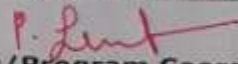
11. (a) Explain the construction and working of Nuclear power plant with nuclear reaction.

Or

(b) Explain the working of a typical fast breeder nuclear reactor power plant with neat diagram and explain the difference between PWR and BWR

12. (a) Explain the difference between controlled and uncontrolled nuclear chain reaction and how nuclear Waste is disposed?

Or

(b) Explain the following terms: Fission reaction, Distribution of fission energy and chain reaction

13. (a) Explain Single and Double basin tidal power generation.

Or

(b) Explain the following: (i) CANDU reactor (ii) Gas cooled reactor

14. (a) Explain in detail the construction and working principle of hydro electric power plant and how you classify the dams?

Or

(b) Explain any FOUR types of Fuel cells.

15. (a) (i) Explain wind electric generating power plant and Wind energy systems.

Or

(b). Explain single stage, double stage, fixed and floating drum type digester.

PART-C   1x15 =15 Marks

16. Explain the Solar Collecting systems for Low, Medium and High Temperatures.

Course Outcome	CO-3	CO-4
Question No.	1-5, 11,12,13	6-10, 14,15,16
Course Coordinator	Module Coordinator	HOD/Program Coordinator

MODEL EXAMINATION

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM
Department of Mechanical Engineering

Year/Sem:	II/ III - A & B	Time:	3 hrs
Max. Marks:	100	Date:	121.10.2019(AN)

MODEL EXAM
ME 8351 – MANUFACTURING TECHNOLOGY-1

PART - A (Answer All Questions) 10x2=20Marks

1. Define : Core
2. Generalize the properties of molding sand.
3. Name the types of flames used in gas welding.
4. Define: Friction stir welding.
5. Define: Recrystallisation temperature
6. Differentiate between hot and cold working.
7. Define spring back in sheet metal forming.
8. What is hydro forming process?
9. Define Elastomers.
10. Name two adhesive that are used for adhesive bonding of plastics.

PART-B 5x13=65 marks

11.a (i)Explain about the allowances given while making Pattern? (7)
  (ii) Compare hot chamber and cold chamber die casting. (6)
  (Or) 13

11.b (i)Explain lost wax - Investment casting processes with neat sketch (7)
  (ii)Describe any one type of Centrifugal casting with neat diagram (6)

12.a (i)Describe the submerged arc welding process with neat diagram (7)
  (ii)Explain Thermit welding Process with neat sketch. (6)
  (Or) 13

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)
  (ii) Explain the Precision forging Process with neat sketch (6)
  (Or) 13

13.b (i)Explain with a neat sketch the process of Rod Drawing. (6)
  (ii) Write short notes on impact extrusion and hydro static extrusion. (7)

14.a (i)Explain Micro forming. (7)
  (ii) Describe Magnetic Pulse Forming with a neat sketch. (6)
  (Or) 13

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. (6)
  (Or)

15.b (i) Explain any one type of injection moulding process. (7) 13
  (ii) Explain transfer moulding. Discuss its advantages and limitations. (6)
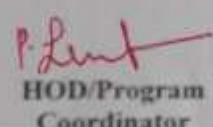
PART-C
1x15=15 marks

16.a Identify any 5 plastic components in your car, and explain the processes that could have been used in making them.

(Or)

16.b An increasing environmental concern is the long time required for degradation of polymers in landfills. Recommend the trends and developments in the production of biodegradable plastics.   15

Course Outcome	CO1	CO2	CO3	CO4	CO5
Question No.	1,2 & 11	3,4 & 12	5,6,13 & 16a	7,8 & 14	9,10,15 & 16b
Course Coordinator		By MODULE Coordinator			HOD/Program Coordinator

7. Sample answer Script with mark allocation and CO allocation for all CIE

Cycle Test - 1

MECH-B - IV-yr

Dhirajlal Gandhi College of Technology

SALEM-636 309

Cycle Test - 1

Name ... P. SANJAY .... Roll No/ Reg No. 6105.16.114.313 ....

Branch . MECHANICAL ENGG .... Semester ...... VII ....

Course Code & Name ME 6701 .... PPE .... Date .. 23.07.2019 (FN)

Name of the Invigilator and Department	
Invigilator's Signature	

Q.No	Part A										Part B				Part C		Total
	1	2	3	4	5	6	7	8	9	10	11		12		13		Max : 50
											a	b	a	b	a	b	
✓ (tick)	✓	✓	✓	✓	✓	✓				✓		✓					34 / 60
Mark		0	2	2	2	2				2	12		12				

Instruction to the candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question

Course Outcome	1													
Question No	1 – 13													
Marks Allotted	60													
Marks Obtained	34													

Cycle Test - 2

Dhirajlal Gandhi College of Technology
SALEM-636 309
Cycle Test - II

Name ..M. Mohan Raj................................ Roll No/ Reg No..... 610516114052..

Branch ...Mechanical Engineering............. Semester...... VII ....

Course Code & Name .ME 6012 – Maintenance. Date ....20.08.19...........
Engineering

Name of the Invigilator and Department	C. PALANI
Invigilator's Signature	C. Rn

Q.No	Part A										Part B				Part C		Total
	1	2	3	4	5	6	7	8	9	10	11		12		13		Max : 50
											a	b	a	b	a	b	
	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓		✓		✓		
Mark	2	2	2	2	2	2	2	2	2	2	9		8		10		43

Instruction to the candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question.

Course Outcome	CO2									
Question No	1-14									
Marks Allotted	60									
Marks Obtained	43									

part - B

11.)

a.) preventive maintenance.

    The preventive maintenance is like precaution is better than cure. The preventing the system before it shutdown is called as preventive maintenance.

Intensive Coaching Test - 1

610518114035
V.M.MANOJ
Ⅲ-YEAR - 'A'
10·3·2020

ME8N93 - THERMAL ENGINEERING - 1
Intensive coaching test - 1

56/100

Part - A

1)

Specific Steam Consumption = $\dfrac{\text{Steam flow}}{\text{Power}}$.

2)

The effects of condenser Pressure on the Ranking cycle is max temperature and water pressure to making high value Pressure and temperature to control this method.

3. Regenerative cycle :-

The regenerative cycle will be heating high temperature boiling and cooling process to making. by day by day to using the process to making.

Intensive Coaching Test - 1

Dhirajlal Gandhi Collage of Technology
SALEM - 636 309
Additional Sheet

Name : Ranjith. S
Reg No : 610517114332
Year/sem : Ⅲ / Ⅴ
Subject : Dynamics of Machines
me8594.
Date : 27·09·2019 / AN.

65/100

Intensive coaching Test - Ⅱ

Part-A

6) Classified governars.

1) Centrifugal Governars.
   → Pentagonal type.
   → Gravity controlled type
   → spring controlled type.
2) Inurtia Governar.

3)

Governar	Flywheel.
*It works immidietly, only the load will be added.	*It works continiously to cycle by cycle.
*Governars are provide a Engine and turbain	*Fly wheel are provide used in Rolling mills, Punches, Shear machine, etc.

Model Examination

Dhirajlal Gandhi College of Technology, SALEM - 636 309

Read the instruction given Overleaf carefully before filling in the title page.
(To be filled in by the candidate)

SI.No. : A

REGISTER NUMBER: 6 1 0 5 1 6 1 1 4 0 0 3

College Code & Name	6 1 0 5	Dhirajlal vardhi college of technology
Degree/Branch	BE Mechanical Engineering
Subject Code	M U 6 8 5 1	Subject Title	Principles of Management

Chief Superintendent's Signature/Facsimile

Question Paper Code

Semester	VI
Date & Session	23/3/19 AN
No. of Pages used	

All particulars given are verified

Signature of the Hall Supdt. with date

S. Krishnan
Name of the Hall Supdt.

For Office Use Only

Do NOT WRITE THE REGISTER NUMBER AND THE COLLEGE CODE / NAME IN ANY OTHER PART OF THE ANSWER BOOK

(To be filled in by the candidate)

Date: 23/03/2019 ... Session ... AN
Subject Code / Title: MU6851 Principles of Management
No. of Pages used ...

Question Paper Code:

For Office Use Only

Instruction to the candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question.

PART - A			PART - B & C							GRAND TOTAL (IN WORDS)		COs	QNo.	Marks Allotted	Marks Obtained
Question No	✓	Marks	Question No	✓	i	✓	ii	✓	iii	Total					
1		2	11	a						11		CO1	1,2 11	17	15
2		2		b											
3		2	12	a						10		CO2	3,4 12	17	14
4		2		b											
5		0	13	a						11		CO3	5,6 13	17	13
6		2		b	5		6			9					
7		2	14	a								CO4	7,8 14,	17	13
8		2		b											
9		2	15	a						GRAND TOTAL		CO5	9,10 15,16	30	4
10		2		b											
			16	a											
Total		18		b						4					59

4. Answer scripts correction and distribution

Script 1

Dhirajlal Gandhi College of Technology
SALEM-636 309

Cycle Test - 1

Name: S.SHRIRAM   Roll No/ Reg No: 610517114336

Branch: MECH - B   Semester: VI

Course Code & Name: ME-8694 Hydraulics & pneumatics   Date: 30/01/2020 d·A·N·

| Name of the Invigilator and Department | | D.Ranjitha |
| Invigilator's Signature | | |

Q.No	1	2	3	4	5	6	7	8	9	10	Part A		Part B 11 a	11 b	12 a	12 b	Part C 13 a	13 b	Total Max : 50
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓			✓	
Mark	1	2	2	1	2	2	2	1	0	–			12		12			08	

Instruction to the candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question

Course Outcome	CO
Question No	10 13
Marks Allotted	60
Marks Obtained	45

Script 2

Dhirajlal Gandhi College of Technology
SALEM-636 309

Cycle Test - 1

Name: A·NEETHISH   Roll No/ Reg No: 610517114058

Branch: MEchanical Engineering   Semester: 6

Course Code & Name: ME8694 Hydraulics and Pneumatics   Date: 29·01·2020 /A.N.

| Name of the Invigilator and Department | | |
| Invigilator's Signature | | |

Q.No	1	2	3	4	5	6	7	8	9	10	Part A		Part B 11 a	11 b	12 a	12 b	Part C 13 a	13 b	Total Max : 50
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓		✓	
Mark	2	2	2	2	2	2	2	2	2	13			13					7	50

Instruction to the candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question

Course Outcome	C01	C02
Question No	1 to 10	3
Marks Allotted	40	10
Marks Obtained	53	

PART-A

2. Applications of fluid power.
   Agriculture
   Automation
   Aviation
   Fabrication industry
   Glass industry
   Building industry, Defense, Environment.

Dhirajlal Gandhi College of Technology, SALEM - 636 309

Read the instruction given Overleaf carefully before filling in the title page.
(To be filled in by the candidate)

SI.No. : A

REGISTER NUMBER: 6 1 0 5 1 6 1 1 4 0 6 4

College Code & Name	6 1 0 5	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY
Degree/Branch	B.E MECHANICAL
Subject Code	M E 6 7 0 2	Subject Title	MECHATRONICS

Chief Superintendent's Signature/Facsimile

Question Paper Code

Semester	VII
Date & Session	11.10.19 & AN
No. of Pages used	

All particulars given are verified

Signature of Candidate with date

A'INBASELAPAN.

Do NOT WRITE THE REGISTER NUMBER AND THE COLLEGE CODE / NAME IN ANY OTHER PART OF THE ANSWER BOOK

(To be filled in by the candidate)

Date: 11.10.19   Session: AN

Subject Code / Title: ME6702   MECHATRONICS

Question Paper Code:

No. of Pages used:

Instruction to the candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question.

PART - A			PART - B & C						GRAND TOTAL IN WORDS		COs	QNo.	Marks Allotted	Marks Obtained
Question No.	✓	Marks	Qustion No.	✓	i	✓	ii	✓	iii	Total				
1		12	a									1	1,2 11	47	Reviewed by Pandu
2		12	11	b	✓					10					
3		12	a									2	3,4 12	17	14
4		12	12	b	✓					10					
5			a									3	5,6 13	17	0-
6			13	b											
7			a									4	7,8 14	32	12
8		12	14	b											
9		12	15	a	✓					10	GRAND TOTAL	5	9,10 15	32	11
10		12		b											
Total		14	16	a	✓					09	39				53/100

*Co-Course Outcome

Dhirajlal Gandhi College of Technology, SALEM - 636 309

Read the instruction given Overleaf carefully before filling in the title page.
(To be filled in by the candidate)

SI.No. : A

REGISTER NUMBER: 6 1 0 5 1 6 1 1 4 0 6 0

College Code & Name	6 1 0 5	Dhirajlal gandhi college of Technology
Degree/Branch	B E / Mechanical Engineering
Subject Code	M E 6 7 0 2	Subject Title	Mechatronics

Chief Superintendent's Signature/Facsimile

Question Paper Code

Semester	07
Date & Session	11/10/19 / AN
No. of Pages used	

All particulars given are verified

Signature of Candidate with date

A'INBASELAPAN.

Do NOT WRITE THE REGISTER NUMBER AND THE COLLEGE CODE / NAME IN ANY OTHER PART OF THE ANSWER BOOK

(To be filled in by the candidate)

Date: 11/10/19   Session: AN

Subject Code / Title: ME6702   Mechatronics

Question Paper Code:

No. of Pages used:

Instruction to the candidate : Put a tick mark (✓) for the questions attended in the tick mark column against each question.

PART - A			PART - B & C						GRAND TOTAL IN WORDS		COs	QNo.	Marks Allotted	Marks Obtained
Question No.	✓	Marks	Qustion No.	✓	i	✓	ii	✓	iii	Total				
1		1	a									1	1,2 11(a)	17	05
2		1	11	b	✓					05					
3		1	a									2	3,4 12	17	07
4		10	12	b	✓					07					
5		1	a									3	5,6 13	17	00
6		10	13	b											
7		10	a									4	7,8 14	32	00
8		10	14	b						8					
9		10	15	a							GRAND TOTAL	5	9,10 15	32	00
10		10		b	✓					07					
Total		04	16							19					23/100

*Co-Course Outcome

5. Collection Grievances from student and Corrected answer scripts distribution

Dhirajlal Gandhi Collage of Technology
SALEM - 636 309
Additional Sheet

Name :- M. Bhuvanesh.

Reg. No :- 610518114008.

Department :- II - mech - A.

Sub :- ME-8351 - Manufacturing Technology - 1.

Date :- 03/1-/19

PART- B.

ICT-I

(2).

a).

i). Difference between Thermoplastics and Thermosetting plastics.

Thermoplastics.	Thermosetting plastics.
* It is softened by heating.	* It cannot be softened by heating.
* It is soft and less strong.	* It is hard and strong.
* Structure is made up of linear chain molecule.	* Structure is made up of cross linked molecule.
* It is produced by addition polymerization process.	* It is produced by condensation process.

6. Marks statement on Department Notice Board and Individual class notice board

Dhirajlal Gandhi College of Technology, Salem
Intensive Coaching Test – II Mark Details – ODD Semester 2019-2020

MECH /II /III /A

CLASS ADVISOR 1 : PANNEERSELVAM N
CLASS ADVISOR 2 : MADHAN KUMAR

S.No.	Register Number	Name of the Student	No. of Subjects Failed in the Previous Semesters	MA8353 TPD Total (100)	ME8391 ETD Total (100)	CE8394 FMM Total (100)	ME8351 MT-1 Total (100)	EE8353 EDC Total (100)	No. of Subjects Failed	Total Marks	%
1	610518114029	KARUN.M	0	96	62	73	77	68	0	376	75
2	610518114007	BHARATHKUMAR.C.S	2	98	55	50	51	68	0	322	64
3	610518114002	AMARNATH.M	5	65	52	50	66	60	0	293	55
4	610518114027	KARTHIKEYAN.S	6	79	50	50	50	50	0	279	56
5	610518114006	BARATH.R	2	27	61	63	65	68	1	284	57
6	610518114012	DHANESH.M	0	90	35	50	55	50	1	280	56
7	610518114040	MOHANAPRIYAN.M	5	57	40	53	51	50	1	251	50
8	610518114019	GOKULAKRISHNAN.M	1	72	50	54	AB	57	1	233	47
9	610518114302	DHANRAJ.A.S (LE)	0	30	55	45	55	62	2	247	49
10	610518114305	KAMALESH KUMAR.A (LE)	0	33	58	32	51	51	2	225	45
11	610518114311	SANKAVI PREETHA.D.P (LE)	0	55	50	26	38	50	2	219	44
12	610518114313	VISHNU BALA.S (LE)	0	30	50	33	50	50	2	213	43
13	610518114037	MANOJ PRABAKAR.K	6	50	25	31	50	50	2	206	41
14	610518114030	KISHORE.B	7	50	50	45	54	AB	3	199	40
15	610518114017	GANESHKUMAR.M	2	50	37	46	27	53	3	213	43
16	610518114011	DEEPTHISHRIE.S	5	52	32	34	36	53	3	207	41
17	610518114035	MANOJ.V.M	8	29	38	21	52	50	3	198	38
18	610518114014	DINESH.G	7	50	32	30	54	AB	3	166	33
19	610518114005	ARUNKUMAR.S	0	90	AB	70	AB	AB	3	180	32
20	610518114008	BHUVANESH.M	7	50	AB	45	50	AB	3	145	29
21	610518114013	DHEENADHAYALAN.M	10	17	AB	24	50	50	3	141	72
22	610518114021	GOKULNATH.M	10	50	28	AB	AB	56	3	134	27
23	610518114042	MURALI.M.P	9	50	AB	AB	50	31	3	131	26
24	610518114039	MOHAMMED SALMAAN.H	3	AB	AB	AB	50	50	3	100	20
25	610518114032	LAKSHMINARAYANAN.R.R	8	27	50	33	17	37	4	164	33
26	610518114015	DINESH.K	2	50	30	36	27	AB	4	143	29
27	610518114303	INTHIYAS C (LE)	0	AB	39	45	51	AB	4	135	27
28	610518114301	BHARATHRAJ K(LE)	0	AB	38	AB	51	37	4	126	25
29	610518114034	MALI ABHIJIT RAJARAM	2	67	AB	30	27	AB	4	124	25
30	610518114031	KOMAGAN.M.U	9	6	28	51	21	AB	4	106	21
31	610518114018	GOKUL.M	2	55	AB	45	AB	AB	4	100	20
32	610518114024	JAGATHEESHWARAN.S	7	25	AB	AB	23	50	4	98	20
33	610518114016	FRANK JEEVARAJ.J	9	24	37	25	22	39	5	147	29
34	610518114022	GOPINATH.S	9	AB	25	37	28	41	5	131	26
35	610518114004	ARULMANI.E	11	26	38	21	24	AB	5	109	22
36	610518114028	KARTHIKEYAN.R	11	25	34	42	AB	AB	5	101	20
37	610518114003	ANBARASU.S	5	25	AB	30	27	AB	5	82	16
38	610518114009	BOOBALAN.S	9	25	AB	18	21	AB	5	64	13
39	610518114025	JAYANANTH.S	10	26	14	9	AB	AB	5	49	10
40	610518114026	JAYAPRAKASH.C	10	22	25	AB	AB	AB	5	47	9
41	610518114036	MANOJ KUMAR.S	10	11	AB	21	AB	AB	5	32	6
42	610518114023	HARIGOKUL.V	9	AB	AB	AB	AB	AB	5	0	0
43	610518114041	MOHANRAJ.S	9	AB	AB	AB	AB	AB	5	0	0
44	610518114306	MOHAMED AJMAL.M (LE)	0	AB	AB	AB	AB	AB	5	0	0
45	610518114001	AJITHKUMAR.S	10	AB	AB	AB	AB	AB	5	0	0
46	610518114308	NOORUL HUQ.M (LE)	0	AB	AB	AB	AB	AB	5	0	0
		Number of Students Absent:		9	20	11	13	20			
		Number of Students Appeared:		40	29	38	36	29			
		Number of Students Passed:		23	23	12	24	23			
		Number of Students Failed:		17	6	26	12	6			
		Average Mark:		46	50	38	44	50			
		Marks >= 75:		5	0	0	1	0			
		Marks >= 50 and <= 74:		35	29	38	35	29			
		Marks <50:		17	6	26	12	6			
		Highest Mark:		98	68	73	77	68			
		Pass Percentage:		58%	79%	32%	67%	79%			

S.No	Subject Code	Subject Name	Name of the Staff.
1	MA8353	Transforms and Partial Differential Equations	Mr A.T.Adalkappan
2	ME8391	Engineering Thermodynamics	Dr.P.Senthilkumar
3	CE8394	Fluid Mechanics and Machinery	Mr.M.Sivasankaran
4	ME8351	Manufacturing Technology - I	Mr.N.Panneerselvam
5	EE8353	Electrical Drives and Controls	Ms.Shanmugapriya

Overall Pass Percentage (04/41) = 10%

Class Advisors   HOD   Exam Cell   Principal

7. Student requisition letter for re-examination

Date: 16·8·18

From.

K. Ellavarasu,
DGCT,
Mechanical department IVyr
Salem.

To

The HOD,
DGCT,
Mechanical department
Salem.

Respected Sir

I had Stomach pain So unable to attend the internal examination Please grand me Leave for One day (16·8·2018).

Thanking you.

Submit Assignment
3Y write
Re-examination

16/8/18

53 - CT-I (WT)

Your faithfully
Thankingyou.
K ఎల్

8. Remedial classes and Re-examination grievance

9. Retest consolidate mark sheet

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM

DAILY TEST -- FEB 17-22

Department of ECE

ECE / I-yr / I-sem / B-sec

Class Advisors: Ms.L.Suganya Devi, AP/Maths

S.No.	Register Number	Name of the Student	Electronic Devices		Circuit Analysis		Technical English		Engg Mathematics-II		Physics for Electronics Engg		Basic Electrical Ins Engg		Arr
			Test	RT	Test	RT	Test	RT	Test	RT	Test	RT	Test	RT	
1		NAVANEETHA KRISHNAN D	✓		✓		✓		✓		✓		✓		0
2		NAVEEN N	—	✓			—	✓	—	✓	✓		—	✓	0
3		NAVEENKUMAR K	—	✓	AB	✓	—	✓	✓		✓		—	✓	0
4		NAVEENKUMAR S	—	✓	✓		—	✓	—	✓	✓		✓		0
5		PRABU A	—	✓	✓		—	✓	✓		✓		✓		0
6		PREMCHAND O	—	✓	✓		✓		—	✓	AB		✓		0
7		RIYAS S	—	✓	✓		—		—	✓	✓		✓		0
8		SATHISHKUMAR M	—	✓	✓		—	✓	✓		✓		✓		0
9		SATHISHKUMAR S	—	✓	✓		✓		✓		✓		✓		0
10		SHABUKA S	—	✓	✓		✓		—	✓	✓		✓		0
11		SUDESH T	—	✓	✓		✓		✓		✓		✓		0
12		SURYA M	✓		✓		✓		✓		✓		✓		0
13		TAMILVIZHI S	✓		✓		✓		—	✓	✓		✓		0
14		VEERASATHISH U	✓		✓		✓		✓		✓		✓		0
15		NANDHINIPRIYAA P	—	✓	✓		✓		—		✓		✓		1
16		PAVITHRA S	—	✓	✓		✓		—	✓	✓		✓		1
17		PRASANTH S	—	✓	✓		AB		✓		✓		✓		1
18		PRIYADHARSHINI M	✓		✓		✓		✓		✓		✓		1
19		PRIYADHARSHINI S	—	✓	✓		✓		—	✓	✓		✓		1
20		PURUSOTHAMON V	—	✓	✓		✓		✓		✓		✓		1
21		RISHI S	—	✓	✓		✓		—	✓	✓		—	✓	1
22		SABARINATH K	—	✓	✓		—	✓	✓		✓		✓		1
23		SILAMBARASAN B	—	✓	AB	✓	—	✓	—	✓	✓		AB	AB	1
24		SRIKARTHIKEYAN S	✓		✓		—	✓	✓		✓		✓		1
25		SUPRIYA E	—	✓	✓		AB		✓		✓		✓		1
26		VIJAYARAGAVAN S	AB	AB	AB	AB	AB	AB	AB	AB	AB		AB	AB	1
27		VINOTH KUMAR C	✓		✓		—	✓	✓		✓		✓		1
28		GOWSALYA S	—	✓	✓		—		AB	AB	✓		—	✓	2
29		SANTHOSH V	—	✓	✓		—	✓	—	✓	✓		—	✓	2
30		SOWMIYA S	—	✓	✓		✓		—	✓	✓		✓		2
31		SRIHARIHARASUDAN R	—	✓	✓		—	✓	—	✓	✓		✓		2
32		SRIKARTHIKEYAN S	—	✓	✓		—	✓	—	✓	✓		—	AB	2
33		VENMATHI T	—	✓	✓		✓		—	✓	✓		✓		2
34		PARTHASARATHI E	—	✓	✓		✓	✓	—	✓	✓		—	✓	3
35		SATHYAPRAKASH A P	—	✓	✓		—	AB	—	✓	✓		—	✓	3
36		SETHUPATHI N	—	✓	✓		✓		—	✓	✓		✓		3
37		SUDHAKAR T K	—	✓	✓		—	✓	—	✓	✓		—	✓	3
38		VIKNESH J					Gone Abroad						AB		3
	Total		37		37		37		37		37		37		
	Present		36		34		35		35		35		35		
	Passed		7		34		17		15				26		
	%		19		92		49		45				74.28		

Class Advisor

Good

HOD / ECE

PRINCIPAL

10. Assignments submission

COMPUTER

AIDED

DESIGN.

ASSIGNMENT-1

NAME: R.S.GOKUL ANAND.

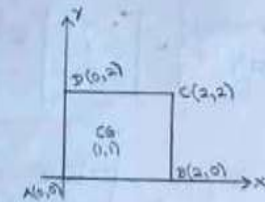BRANCH: B.E - MECHANICAL ENGINEERING

REGI. No: 610517114026.

PROBLEMS:-

1. Rotate the rectangle $A(0,0)$, $B(2,0)$, $C(2,2)$, $D(0,2)$. Show in figure and $30°$ Counter Clockwise (CCW) about its Centroid $C(1,1)$ and find the new co-ordinates of the rectangle.

SOLUTIONS:-

Transformed matrix

$$\begin{bmatrix} A' \\ B' \\ C' \\ D' \end{bmatrix} = \begin{bmatrix} A \\ B \\ C \\ D \end{bmatrix} \times [\text{overall matrix}]$$

overall matrix

$$T'RT$$

i) $T_x = +1$ $T_y = +1$

$$T' = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -T_x & -T_y & 1 \end{bmatrix} \text{(Formulae)} \quad T' = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -1 & -1 & 1 \end{bmatrix}$$

ii) $R = \begin{bmatrix} \cos\theta & \sin\theta & 0 \\ -\sin\theta & \cos\theta & 0 \\ 0 & 0 & 1 \end{bmatrix}$ (Formulae) CCW at $30°$ - take positive.

$$R = \begin{bmatrix} \cos 30 & \sin 30 & 0 \\ -\sin 30 & \cos 30 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$R = \begin{bmatrix} 0.866 & 0.5 & 0 \\ -0.5 & 0.866 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

11. Phase Mark and Attendance entry to the Anna University Web portal

Dhirajlal Gandhi College of Technology, Salem - 6363(
Attendance - Phase - 1 (01.07.2019 to 25.07.2019)

Degree/Branch & year : BE / Mechanical
Sub.Code & Sub. Name : ME6701 & POWER PLANT ENGINEERING
Staff Name : Dr.V.Ravikumar, ASP/Mech

S.No	Reg.No.	Name of the student	No. of hrs taken	No. of hrs attended	Phase - 1 Attendance %	Marks I (Out of 100)
1	610516114049	MEIVEL K V	14	14	100	
2	610516114050	MOHAMED FAZIL A	14	12	86	
3	610516114051	MOHAN KUMAR C	14	12	86	
4	610516114052	MOHAN KUMAR M	14	13	93	
5	610516114053	MOHAN RAJ M	14	13	93	
6	610516114054	MUKESH PP	14	12	86	
7	610516114055	MUKILAN M	14	14	100	
8	610516114056	NAVEEN.G	14	12	86	
9	610516114057	NAVEEN M	14	14	100	
10	610516114059	PRABAKARAN S	14	14	100	
11	610516114060	PRADEEP M	14	14	100	
12	610516114061	PRADEEPKUMARAN	14	12	86	
13	610516114062	PRASANTH M	14	14	100	
14	610516114063	PRAVEEN KUMAR K	14	14	100	
15	610516114064	RAGUL.K	14	14	100	
16	610516114065	RAMANATHAN .A.R	14	14	100	
17	610516114066	RANJITHKUMAR .S	14	14	100	
18	610516114069	RIYAZ.A	14	14	100	
19	610516114070	SABARI NATHAN.K	14	12	86	
20	610516114071	SANJAI	14	12	86	
21	610516114072	SATHISH.M	14	12	86	
22	610516114074	SHABARI.P	14	13	93	
23	610516114075	SHANMUGA PRIYAN	14	14	100	
24	610516114076	SHANMUGASUNDAR	14	12	86	
25	610516114077	SOUNDARRAJAN.S	14	12	86	
26	610516114078	SRINIVASAN.M	14	14	100	
27	610516114079	SUBASH	14	14	100	
28	610516114080	SUGAVIGNESI I.B	14	14	100	
29	610516114081	SUGUMAR.S	14	14	100	
30	610516114082	SURENDHAR.S	14	14	100	
31	610516114083	SURESH KUMAR.G	14	14	100	
32	610516114084	SURYA.S(1998)	14	14	100	
33	610516114085	SURYA.S(1999)	14	14	100	
34	610516114086	SURYA PRAKASH.A	14	12	86	
35	610516114087	THANGAPANDIYAN	14	12	86	
36	610516114088	THARANITHARAN.M	14	14	100	
37	610516114089	THULASIMANI.G	14	14	100	
38	610516114090	VASIM KHAN.J	14	14	100	
39	610516114091	VELAVAN.S	14	14	100	
40	610516114092	VIGNESHWAR.U	14	12	86	
41	610516114093	VIGNESHWAR.V.T	14	12	86	
42	610516114094	VINOTH KUMAR.R	14	14	100	
43	610516114095	VINOTH RAJ.T.N	14	12	86	
44	610516114096	VISHNU.K	14	14	100	
45	610516114309	MANIKANDAN.M	14	14	100	
46	610516114310	PRABAKARAN.S	14	14	100	
47	610516114311	RAMKUMAR.R	14	14	100	
48	610516114312	SABARI BOSE.T	14	13	93	
49	610516114313	SACHIN THINAKARAN	14	12	86	
50	610516114314	SANJAY.P	14	13	93	
51	610516114315	SATHYA NARAYANAN	14	12	86	
52	610516114317	SURYAPRASATH.G.K	14	12	86	
53	610516114318	SURYA.K	14	12	86	
54	610516114501	PRATHAP	14	12	86	
55	610516114502	UDAYAMOORTHI	14	12	86	

Staff Sign/Class advisor   HoD   Prin

A sample student mentoring form for continuous monitoring of student grievances and to obtain marginal internal mark for both fast and slow learners

ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Assessment Details Entered
APRIL / MAY EXAMINATION,2020 [R-2017] - EXAMINATIONS

Inst Code & Name : 6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

Reg No & Name	Subject								
	MA8491	9	10	15	15	90	12	13	89
610518103008 DHANUSH S	CE8401	4	7	15	16	70	11	13	75
	CE8402	7	8	20	23	70	9	11	70
	CE8403	10	10	15	15	85	23	23	75
	CE8404	3	5	14	14	80	7	7	75
	CE8461								
	CE8481								
	CE8491	12	12	14	15	61	19	20	75
	HS8461								
	MA8491	9	10	14	15	80	11	13	90
610518103009 GIRUTHICGHA M	CE8401	5	7	13	16	95	13	13	98
	CE8402	6	8	21	23	95	9	11	82
	CE8403	9	10	11	15	91	19	23	94
	CE8404	3	5	13	14	99	7	7	95
	CE8461								
	CE8481								
	CE8491	11	12	15	15	96	20	20	99
	HS8461								
	MA8491	9	10	15	15	85	11	13	92
610518103010 GOVINDARAJ M	CE8401	6	7	13	16	98	13	13	99
	CE8402	7	8	20	23	98	11	11	98
	CE8403	10	10	13	15	93	22	23	92
	CE8404	4	5	11	14	90	5	7	96
	CE8461								
	CE8481								
	CE8491	12	12	15	15	95	20	20	99
	HS8461								
	MA8491	10	10	14	15	93	13	13	86
610518103011 GOWSHIKAA B	CE8401	6	7	16	16	80	13	13	95
	CE8402	8	8	23	23	80	11	11	82
	CE8403	10	10	13	15	88	21	23	87
	CE8404	5	5	14	14	90	7	7	95
	CE8461								
	CE8481								
	CE8491	12	12	15	15	99	20	20	84
	HS8461								
	MA8491	10	10	15	15	89	12	13	99
610518103012 HARI HARAN V	CE8401	6	7	15	16	98	13	13	99
	CE8402	7	8	21	23	98	11	11	98
	CE8403	9	10	15	15	95	23	23	96
	CE8404	4	5	13	14	98	7	7	80
	CE8461								
	CE8481								
	CE8491	11	12	15	15	95	20	20	86
	HS8461								
	MA8491	10	10	15	15	100	13	13	99
610518103013 HARSHINI A	CE8401	6	7	16	16	99	13	13	98
	CE8402	8	8	23	23	99	11	11	99
	CE8403	10	10	15	15	98	22	23	98
	CE8404	5	5	14	14	99	7	7	99
	CE8461								
	CE8481								
	CE8491	12	12	15	15	98	20	20	98
	HS8461								
	MA8491	10	10	15	15	100	13	13	85
610518103014 JAYASRI K	CE8401	5	7	15	16	90	10	13	95
	CE8402	8	8	23	23	90	11	11	92
	CE8403	10	10	15	15	92	23	23	97

Cycle Test- 1 and 2

Dhirajlal Gandhi College of Technology
SALEM-636 309

Cycle Test - 1

Name: V. Hari Haran   Roll No/ Reg No: 610518104055
Branch: CSE - A   Semester: III
Course Code & Name: CS8391 - Data Structures   Date: 23/4/19 (A.N)

Name of the Invigilator and Department: C. Vinothkumar & Mathematics
Invigilator's Signature: C. V...

Q.No	Part A										Part B				Part C		Total
	1	2	3	4	5	6	7	8	9	10	11 a	b	12 a	b	13 a	b	Max : 50
✓																	
Mark																	

Course Outcome		
Question No		
Marks Allotted		
Marks Obtained		

Dhirajlal Gandhi College of Technology
SALEM 636 309.

Unit Test - 2

Name: V. Hari Haran   Roll No: 610518104055
Branch: CSE - A III year   Semester: III
Subject: Data Structures   Date: 21/8/19 (A.N)

Q. No	Part A					Part B			Total Max : 50
	1	2	3	4	5	6	7	8	
Mark									

Part - A

1) Priority queue :-

Priority queue is an the collection of element in the of...

i) ascending Priority queue
ii) descending Priority queue

Way to implement

i) Insertion
ii) Deletion
iii) Display

13)

Intensive Coaching Test – 1 and Retest

Dhirajlal Gandhi Collage of Technology
SALEM - 636 309
Additional Sheet

36/100

V. Hari nara
CSE - II - A
S10SIA5OHOLS
CS8391- Data structure
2/05/19

Intensive Test - 1

Part B

An number of are vertices of edges on the same following. Sometimes to be found

An deleting the edges to become on the graph

An deleting the edges on there a vertices becomes on e is Deleted

71/100

V. Hari Hara
CSE - A
DS - test

1) Binary search tree -
Binary search tree is root value will be the constant and less than the root value will insert on left side and greater than the root value will be insert on Right side of root

Empty tree -
Binary tree make Empty (search tree T)
{
  if (T == null)
  make Empty (T->left);
  make Empty (T->Right);
}

The Empty tree is on becomes on the leaf on the Empty and in the root of leaf Eg:-

search tree -
Posfind (element, search tree T)
{ if (T == null)
  return null.
  if (x, T->left -> element).
  return search (T->left)
  else

External Assessment

12. University Exam Theory/Practical Time table on Department Notice Board and Individual class notice board

Sample University question Paper

Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 20258

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Third/Fourth Semester

Civil Engineering

CE 6306 — STRENGTH OF MATERIALS

(Common to Mechanical Engineering (Sandwich)/Agricultural Engineering/
Automobile Engineering/Industrial Engineering/Industrial Engineering and
Management/Manufacturing Engineering/Materials Sciences and Engineering/
Mechanical Engineering/Mechanical and Automation Engineering/
Mechatronics Engineering/Production Engineering)

(Regulations 2013)

(Also Common to PTCE 6306 – Strength of Materials for B.E. (Part-Time) –
Second Semester – Mechanical Engineering (Regulations – 2014))

Time : Three hours   Maximum : 100 marks

Assume suitable data if found necessary.

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Poisson's ratio.

2. Write an expression of volumetric strain for a rectangular bar subjected to an axial load P.

3. What do you mean by the point of contra flexure?

4. Enlist the assumptions in the theory of simple bending.

5. What is called twisting moment?

6. Give any two functions of spring.

7. A cantilever beam is subjected to a point load W at the free end. What is the slope and deflection at the free end?

8. State the Maxwell's reciprocal theorem.

9. Distinguish between thin and thick cylinders.

10. What are the assumptions made in Lame's theory?

PART B — (5 × 13 = 65 marks)

11. (a) A reinforced short concrete column 250 mm × 250 mm in section is reinforced with 8 steel bars. The total area of steel bars is 2500 mm². The column carries a load of 390 kN. If the modulus of elasticity for steel is 15 times that of concrete, find the stresses in concrete and steel.

Or

(b) The stresses at a point in a bar are 200 N/mm² (tensile) and 100 N/mm² (compressive). Determine the resultant stress in magnitude and direction on a plane inclined at 60° to the axis of the major stress. Also determine the maximum intensity of shear stress in the material at the point.

12. (a) Draw a shear force and bending moment diagram for a simply supported beam of length 9 m and carrying a uniformly distributed load of 10 kN/m for a distance of 6 m from the left end. Also calculate the maximum B.M. on the section.

Or

(b) A simply supported wooden beam of span 1.3 m having a cross section 150 mm wide by 250 mm deep carries a point load W at the center. The permissible stress are 7 N/mm² in bending 1 N/mm² in shearing. Calculate the safe load W.

13. (a) A hollow shaft is to transmit 300 kW power at 80 r.p.m. If the shear stress is not to exceed 60 N/mm² and the internal diameter is 0.6 of the external diameter, find the external and internal diameters assuming that the maximum torque is 1.4 times the mean.

Or

(b) The stiffness of a closed-coiled helical spring is 1.5 N/mm of compression under a maximum load of 60 N. The maximum shearing stress produced in the wire of the spring is 125 N/mm². The solid length of the spring (when the coils are touching) is given as 5 cm. Find :

(i) diameter of wire

(ii) mean diameter of the coils and

(iii) number of coils required. Take C = 4.5 × 10⁴ N/mm².

2 20258

14. (a) A beam of length 5 m and of uniform rectangular section is supported at its ends and carries uniformly distributed load over the entire length. Calculate the depth of the section if the maximum permissible bending stress is 8 N/mm² and the central deflection is not to exceed 10 mm.

Or

(b) Derive the equation for slope and deflection of a simply supported beam of length 'L' carrying point load W at the centre by Mohr's theorem.

15. (a) A boiler shell is to be made of 15 mm thick plate having a limiting tensile stress of 120 N/mm². If the efficiencies of the longitudinal and circumferential joints are 70% and 30% respectively determine : The maximum permissible diameter of the shell for an internal pressure of 2 N/mm².

Or

(b) A thin cylinder shell with following dimensions is filled with a liquid at atmospheric pressure : Length = 1.2 m. external diameter = 20 cm, thickness of metal = 8 mm. Find the value of pressure exerted by the liquid on the walls of the cylinder and the hoop stress induced if an additional volume of 25 cm³ of liquid is pumped into the cylinder. Take E = 2.1 × 10⁵ N/mm² and Poisson's ratio = 0.33.

PART C — (1 × 15 = 15 marks)

16. (a) A beam of length 12 m is simply supported at two supports which are 8 m apart, with an overhang of 2 m on each side as shown in Fig. The beam carries a concentrated load of 100 N at each end. Draw S.F. and B.M. diagrams.
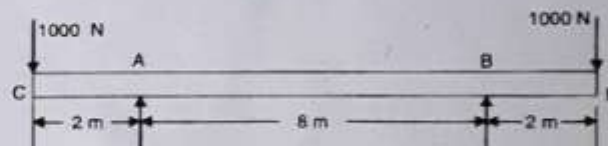
Or

(b) A cantilever of length 3 m carries a uniformly distributed load of 80 kN/m over the entire length. If E = 2 × 10⁸ kN/m² and I = 10⁸ mm⁴, find the slope and deflection at the free end using conjugate beam method.

3   20258

13. University Exam results published Anna University

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination, 2017.

Inst.Code/Name : 6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY   Semester No. : 07   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 106-B.E. Electronics and Communication Engineering

Reg. Number	Stud. Name	EC2401 Grade	EC6004 Grade	EC6005 Grade	EC6007 Grade	EC6009 Grade	EC6014 Grade	EC6016 Grade	EC6701 Grade	EC6702 Grade	EC6703 Grade	EC6711 Grade	EC6712 Grade	IT6005 Grade
610512106066	PRASANNA KUMAR S	U												
610513106012	DEEBAN S		U						U					
610513106050	NANTHINI K								U					
610513106086	THIRUMAALVASAN R		U				U		U	U				
610513106305	DHARANI DHARAN J		E						U					
610513106312	KANNAN S		E											
610513106314	KIRUBANANDHA S		D						U		U			
610513106324	NAVEEN M		E											
610513106327	PRABAKARAN R		U											
610513106328	PRASHANTH C								E					
610513106329	PRAVEEN A								E	E				
610513106336	SATHISH KUMAR C								U					
610513106340	SOMESH B						U		U					
610513106342	SURESHKUMAR K								E					
610513106346	VIGNESH S K									U				
610514106001	ABINAYA S			B		C	D		E	D	U	S	S	
610514106002	AISHWARYA S			B	C			B	C	C	E	S	S	
610514106003	AMREEN S					D	B		C	B	E	A	S	C
610514106004	ARUN V		C			C		C	E	C	U	A	B	
610514106005	ARUNKUMAR S		U			E		UA	U	U	U	B	C	
610514106006	AYSWARIYA E				C			B	C	E	U	B	A	E
610514106007	AZHAGARASAN M		U			E		C	U	U	U	B	D	
610514106008	BALAJI R		U		D		C		E	D	E	B	C	
610514106009	BALAJI S		U			D		C	D	D	C	S	A	
610514106010	BAVYA R					C	C		E	C	C	A	A	U
610514106011	BISMIYA K					D	A		C	B	B	A	S	C
610514106012	DAYANA M					U	C		B	C	C	A	S	D
610514106013	DEEPTHI R R			B	C			B	C	B	B	S	S	
610514106014	DHANUSHIYA V					D		B	C	A	C	A	S	D
610514106015	DHINESHKUMAR N		E			U		E	E	C	E	B	B	
610514106016	DINESH BABU V		U			U		E	D	D	E	A	C	
610514106017	GAYATHRI C					C		A	B	A	B	S	S	B
610514106018	GNANAVEL S		U			U	E		F	E	C	B	A	
610514106019	GOKHILA DEVI S			A	A				C	U	B	A	S	S
610514106020	GOPINATH N		U		U		U		U	U	U	B	C	

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

02-02-2018

Anna University - COE

14. Circular for Photocopy Application

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

CIRCULAR

Date: 02.01.2018

It is informed that the students (B.E., & M.E.,) who wish to apply for revaluation should first apply for photocopy of his/her answer script by paying Rs. 300.00 per answer script on or before 04.01.2018 to their class advisor.

Principal

Note:

1. A candidate can apply for revaluation of answer scripts for not exceeding Five subjects at a time.
2. Do not apply photocopy for project & practical subjects.

1. Civil — K Sharad 22/01/2018
2. CSE —
3. EEE —
4. ECE —
5. Mech —

15. Collection of Application forms from students for photocopy of answer scripts

ANNA UNIVERSITY
CHENNAI - 600 025
APPLICATION FOR PHOTOCOPY
NOV. / DEC. EXAMINATION, 2017

PC

INSTRUCTION TO CANDIDATES

1. Fee for obtaining Photocopy is Rs.300/- per answer script and shall be paid at the College only.
2. Application for Photocopy of answer scripts must be submitted to the Principal of the concerned College on or before 05-01-2018
3. The candidate is advised to register for the subject, in which Photocopy is sought for within the stipulated time for the next examination without waiting for the supply of Photocopy/results of Revaluation.
4. There is no provision for Photocopy of Practical/Project examination Papers.
5. Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.
6. No application will be accepted beyond the due date prescribed.
7. The Head of the Department should ensure while recommending application that the subject code and the subject(s) filled in the respective columns by the candidate are verified and found to be correct.

1.	Name	ABINAYA S
2.	Register Number	610514106001
3.	College Code / Name	6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY
4.	Degree & Branch	B.E. Electronics and Communication Engineering
5.	Month & Year of Examination	Nov./Dec. 2017
6.	No. of Subjects applied for Photocopy	1
7.	Amount of fee paid to the College	Rs. 300

8. Subjects for which photocopies of valued answers scripts required:

Semester No.	Subject Code	Subject Title	Grade	Result
07	EC6703	Embedded and real time systems	U	RA

9. Recommendations of the HOD

Signature of the HOD

Signature of the Candidate

Station : Salem

Signature of the Principal

Date : 8 - 1 - 18

College Seal

Dr. V. MURALI BHASKARAN, M.E.,Ph.D
Principal
Dhirajlal Gandhi College of Technology
Sikkanampatty, Salem - 636 309

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16. Sample Photocopy

17.   Revaluation photocopy evaluated by Internal staff

Instructions to candidates who are receiving Photocopy of Answer Script(s)

1. Please note that the valuation is done for 100 marks in the answer script and the result announced is for 80 marks by conversion.

2. Check whether the photocopy of the answer script supplied is yours including the subject for which you have applied for.

3. Check whether the totaling of marks is correct.

4. Check whether marks have been entered against the question no. (including sub-division) in the front page, for all answers written.

5. If you find any mistake/omission/error on any of the item in Sl. No.2 to 4 you are directed to represent the matter to the Controller of Examinations in writing with all the details through the Principal concerned within 3 days of receipt of the photocopy of the answer script.

6. Answer scripts are valued by competent examiners who are teachers from other Engineering Colleges.

7. The valuation in the photocopy of the answer script can be verified by the subject expert and if the expert is convinced that the script deserves higher marks than awarded, he/she can recommend for applying revaluation in the format given below:

PART - A		PART - B					
Q. No.	MARKS	Q. No.		i	ii	iii	TOTAL
1	1	11	a				1
2	1		b	4	3	7	8
3	2	12	a				2
4	1		b	5	2	1	8
5	1	13	a				1
6	0		b	4	5	9	9
7	0	14	a				0
8	0		b	10		10	10
9	2	15	a	4		4	6
10	1		b				1
		16	a				
			b				
TOTAL	9			27	10		46

✓ RECOMMENDED/~~NOT RECOMMENDED~~ | GRAND TOTAL

Signature	Apve
Examiner	Jayamurugamy· A·P
College code /Name	610's Dhanjid Grand hi Colbg of techn

GRAND TOTAL: 46.

The above recommendation by the subject expert may be retained by the Principal and the same be produced to the Controller of Examinations as and when it is required for further action.

8. The application for revaluation of answer scripts for the persons obtained photocopy will be intimated after the supply of photocopy.

9. The marks awarded after revaluation which takes into account all aspects of valuation (including omission if any) is final. No representation will be entertained.

10. Photocopy of Revalued Answer Scripts will not be supplied on any account.

18. Circular for Photocopy Application

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY::SALEM

CIRCULAR

Date: 29.01.2018

All the B.E., & M.E., students, who wish to apply for revaluation (Nov/Dec-2017), should submit the evaluated photocopy of the answer script and pay Rs.400/- per answer script on or before 30-01-2018 to their respective class advisors.

Class advisors are requested to upload the revaluation details in the web portal from 29.01.2018 to 30.01.2018.

Students are informed to verify the revaluation application on 30.01.2018 **any remarks please inform to exam cell/principal before 5:00 pm on the same day (30.01.2018) without fail.**

PRINCIPAL

To
1. All HoD's.
2. Exam cell Notice board.

19.   Application of Revaluation (After Recommendation from Internal staff)

ANNA UNIVERSITY
CHENNAI - 600 025
APPLICATION FOR REVALUATION
NOV. / DEC. EXAMINATION, 2017

R

INSTRUCTION TO CANDIDATES

1. Fee for Revaluation is Rs.400/- per answer script and should be paid at the College only.

2. Application for Revaluation must be submitted to the Principal of the concerned College on or before 30-01-2018

3. The candidate is advised to register for the subject, in which Revaluation is sought for within the stipulated time for the next examination without waiting for the results of Revaluation.

4. There is no provision for Revaluation of Practical/Project examination Papers.

5. Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.

6. No application will be accepted beyond the due date prescribed.

7. The Head of the Department should ensure while recommending the application that the subject code and the subject(s) filled in the respective columns by the candidate are verified and found to be correct.

1.	Name	ABINAYA S
2.	Register Number	610514106001
3.	College Code / Name	6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY
4.	Degree & Branch	B.E. Electronics and Communication Engineering
5.	Month & Year of Examination	Nov./Dec. 2017
6.	No. of Subjects applied for Revaluaion	1
7.	Amount of fee paid to the College	Rs. 400

8. Subjects for which revaluation of valued answers scripts required:

Semester No.	Subject Code	Subject Title	Grade	Result
07	EC6703	EMBEDDED AND REAL TIME SYSTEMS	U	RA

9. Recommendations of the HOD

Signature of the HOD

Signature of the Candidate

Signature of the Principal

Station : Salem

Date : 30-01-18

College Seal

Dr. V. M...

Principal
Dhirajlal Gandhi College of Technology
Sikkanampatty, Salem - 636 309

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20. Revaluation result published Anna University

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination, 2017(Reval./Photo.).

Inst.Code/Name : 6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY   Semester No. : 07   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 106-B.E. Electronics and Communication Engineering

Reg. Number	Stud. Name	EC6004 Grade	EC6009 Grade	EC6701 Grade	EC6702 Grade	EC6703 Grade	IT6005 Grade
610513106012	DEEBAN S			NC			
610513106327	PRABAKARAN R	NC					
610513106346	VIGNESH S K				NC		
610514106001	ABINAYA S					NC	
610514106004	ARUN V					NC	
610514106006	AYSWARIYA E					NC	
610514106009	BALAJI S	NC					
610514106010	BAVYA R						NC
610514106012	DAYANA M		NC				
610514106019	GOKHILA DEVI S			NC			
610514106032	KANNAN V				NC	NC	
610514106033	KARTHIKEYAN L					NC	
610514106043	KRISHNARAJ R			NC			
610514106051	MONICA E					NC	
610514106062	PRIYADHARSHINI M		NC				
610514106063	RAHUL H		E			NC	
610514106064	REENA G		NC				
610514106065	REKHA M		NC				
610514106066	RUBASRI S		NC				
610514106067	SABARINATH K					NC	
610514106071	SANTHOSH K					NC	
610514106072	SARANYA R		●		NC	NC	
610514106076	SHAMNA A				NC		
610514106080	SOWMIYA J				NC		
610514106092	THIRISIGAN P				NC	NC	
610514106093	VIJAYA VANI P A					E	
610514106311	PRAVEENKUMAR R					E	
610514106315	SARANYA M		NC				
610514106316	SHANMUGA SUNDARAM K		NC				
610514106319	VIMALRAJ J		E		NC		

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

20-02-2018

Anna University - COE

21. Circular for Challenge revaluation on Department Notice Board

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY::SALEM

CIRCULAR

Date: 20.02.2018

All the B.E., & M.E., students, (Revaluation Results published on 17.02.2018) who wish to apply **REVIEW or Challenge of answer scripts**, are informed to contact exam cell through your class advisor and Head of the Department. **The last date is 21.02.2018**.

Applying students should take the DD for Rs. 3000/- in favour of "The Controller of Examinations, Anna University, Chennai" and Payable at Chennai.

The following documents should be submitted to the exam cell on or before 22.02.2018.

1. Application form (Available in exam cell).
2. Demand Draft Rs. 3000.00 per paper.
3. Photocopy of answer script.
4. Student bank A/c No.
5. Bank IFSC code
6. Student mail id.
7. Student mobile No

PRINCIPAL

22. Collection of Application forms from students for challenge revaluation

ANNA UNIVERSITY
CHENNAI - 600 025
APPLICATION FOR REVIEW
NOV. / DEC. EXAMINATION, 2017

INSTRUCTION TO CANDIDATES

1. Fee for Review is Rs.3000/- per answer script and should be paid at the College only.

2. The candidate is advised to register for the subject, in which Review is sought for within the stipulated time for the next examination without waiting for the results of Review.

3. Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.

4. No application will be accepted beyond the due date prescribed.

5. Application for Review must be submitted to the Principal of the concerned College on or before 22-02-2018

1.	Name	ABINAYA
2.	Register Number	610514106001
3.	College Code / Name	6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY
4.	Degree & Branch	B.E. Electronics and Communication Engineering
5.	Month & Year of Examination	Nov./Dec. 2017
6.	No. of Subjects applied for Revaluaion	1
7.	Amount of fee paid to the College	Rs. 3000

6. Subjects for which review of valued answers scripts required:

Semester No.	Subject Code	Subject Title
07	EC6703	EMBEDDED AND REAL TIME SYSTEMS

7. Candidate Bank Account Details

Account Number : 450471862	IFSC Code : IDIB000J008
Mail Address : abinayasaraswathisj@gmail.com	Mobile Number : 9487755058

8. Recommendations of the HOD

I hereby declare that the information furnished above is true to the best of my knowledge and belief ".

Signature of the HOD

Signature of the Candidate

Station : Omalur.

Signature of the Principal

Dr. V. MURALI BHASKARAN, ME.,Ph D
Principal
Dhirajlal Gandhi College of Technology
Sikkanampatty, Salem - 636 309

Date : 22.02.2018

College Seal

23. Challenge Revaluation result published by Anna University

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination, 2017(Review).

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Inst.Code/Name : 6105 - DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY   Semester No. : 07   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 106-B.E. Electronics and Communication Engineering

	Subject Code ->	EC6009	EC6701	EC6703
Reg. Number	Stud. Name	Grade	Grade	Grade
610514106001	ABINAYA S			E
610514106008	AYSWARIYA E			NC
610514106019	GOKHILA DEVI S		NC	
610514106062	PRIYADHARSHINI M	NC		
610514106064	REENA G	NC		
610514106066	RUBASRI S	NC		

W - Withdrawal   I - Inadequate Attendance
WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

21-03-2018
Anna University - COE