

POLICY ON ADVANCED AND SLOW LEARNERS

PRINCIPAL

THAMIRABHARANI ENGINEERING COLLEGE Chathirampudukulam Village, Chidambaranagar - Vepemkulam Road,

Thatchanallur, Tirunelveli - 627 358.



2.2.1 The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

POLICY ON ADVANCED AND SLOW LEARNERS

This policy paper is recognized as the "Policy on Advanced and Slow Learners" of the Thamirabharani Engineering College, Thatcahanallur. Through this policy the college pronounces its assurance to the vital facilitation and prop up to the advanced learners to be excellent achievers and slow learners to be better performing and achieving students in the academic and personal life. The policy also persuades the teaching Departments to develop significant strategies and scientific implementations to benefit both the advanced learners and slow learners in the University education system without forgetting the average performers.

Policy Guidelines for Advanced learners

- 1. Advanced learners are motivated to strive for higher goals. They are provided with additional inputs for better career planning and growth through offering special coaching for higher level competitive examinations
- 2. Motivating them to involve in research projects to inculcate research orientation and higher studies aspirations
- 3. Helping them to participate in group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby, to improve their presentation skills. Encouraging them to participate in National International Conferences and also to make presentations
- 4. They are given special prizes and special facilities like digital library laptops and special scholarships for making their ideas become visible.
- 5. The mentors give higher goals and also make the advanced learners get higher levels of personality development and stress management trainings.
- 6. They are made the supporters to the average and the slow learners.

Policy Guidelines for Slow learners

1. The slow learners are not labeled as poor achievers or problem students in the class or department so that their motivation and their interest are not negatively affected. This can also make them more stressed, and introvert in the class.

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- 2. They should be treated as any other student in the class but they can be provided extra classes for improvement and achievement.
- 3. The Department and individual teachers help the slow learners by giving proper guidance and support to them.
- 4. Organize bridge classes and remedial programmes for them.
- 5. Conduct extra classes for the difficult subjects (based on the previous university results) in the curriculum.
- 6. Special attention is given to the students in the tutorial classes, who are identified as the slow learners.
- 7. Slow learners are specially advised and counseled by a teacher guardian and the subject expert.
- 8. Corrective classes are conducted for the weaker students based on the results of class tests.
- 9. The students are given with training on communication skills, personality development, time management and motivational sessions.
- 10. Design special coaching sessions or tutorial sessions to bridge the gap between the slow learners and advanced learners are provided.
- 11. Academic and personal counseling are given to the slow learners by the tutor, mentor and the counseling cell.

Strategies for the advanced learners:

- The institution organizes Orientation programmes/Induction programmes for freshers in the start of every academic year both at the college level as well as the department level. Bridge Courses are conducted at the department level to lift the students to the standard of higher education.
- The Department of Computer Science of our college selected and focused two specific areas in conducting the Bridge Course - Basics of Computers and Advances in Computer Science.
- The English Department of TEC organizes Orientation / Bridge Course in Basic English Grammar to enable Tamil medium students to cope with the course.

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- The Department of Mathematics organizes Bridge Course to all the first year students are admitted to cope up with the knowledge requirement of the course opted by the student.
- Coaching classes are conducted for Advanced Learners to face competitive exams.
 Students are encouraged to enroll in NPTEL Courses Swayam.
- Coaching is also given in Skill Development Programme like Communicative English, Aptitude and Placement.
- Students are encouraged to have an internship with their relevant discipline of studies
 to learn and analyse the current needs of industrial aspects. Based on the industrial
 needs the following core courses and inter-disciplinary courses are conducted to
 encourage our students to learn as advanced learner programme in every semester
 after the working hours.

Strategies adopted for slow learners:

- The institution assesses the learning levels of the students in means of two thingsstudents enrolled in various disciplines are identified as slow and advanced learners based on their performance in Internal Assessment Test and University Examination.
- All the departments draw up the schedule for organising remedial classes for slow learners. This exercise is done in a discreet manner and slow learners are encouraged and stimulated to recognize their shortcomings and register on their own without compulsion.
- Teachers are able to give one to one attention in remedial classes and focus on individual problems in a better manner when compared to a regular classroom.
- Group Study System is also encouraged with the help of the advanced learners.
 Academic and personal counselling is given to the slow learners by mentor. Provision of simple and standard lecture notes/course materials will enable them to perform even better in their academic performance.

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Thamirabharani Engineering College

Department of Civil Engineering

List of Courses

Special Programmes for Advanced Learners (Academic Year: 2020-2021)

S.No	Name of the Course	Course Competency	Semester	Year	Staff In charge
1	Computational Fluid Dynamics	Inter-Disciplinary	3		Mr. M. Muthuganesh, AP/Civil
2	Advanced Reinforced Concrete Design	Core	4	2	Mr. S. Rajamuniasamy, AP/Civil
3	Basics of Finite Element Methods	Inter-Disciplinary	5		Mr. M. Harris Simon, AP/Mech
4	Total Quality Management	Inter-Disciplinary	6	3	Mrs. M. Sameem Suha, AP/Civil
5	Advanced Strength of Materials	Inter-Disciplinary	7		Mr.V. Antony, AP/Mech
6	Basic Program in STAAD.Pro for RCC Structures	Core	8	4	Mr. V. C. Suntar Raajan, AP/Civil

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ADVANCED LEARNER COURSE

TECALCO08 – BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

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TECALCO08 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

Course curriculum prepared by

: Mr. V. C. Suntar Raajan, AP/Civil

Approved by (Head of the Department) :

Approved by the Civil Department Advisory committee meeting held on:

Approved by the (No.) IQAC meeting held on:

Approved by the (No.) Governing Council meeting conducted on:

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ADVANCED LEARNER COURSE TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES INDEX

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CIRCULAR

Ref:TEC/CIVIL/2020-21/ODD/ALC/08

In order to make the student industry ready engineers and to provide advanced quality training to the advanced learners of final year of civil engineering department, the course on "TECALC008 – BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES" by Mr. V. C. Suntar Raajan, AP/Civil is being offered to enhance employability of the students, technical skills and make them more competitive. Course commences from 15.03.2021 to 16.04.2021. Students are instructed to make use of the opportunity. Advanced learners of final year of civil engineering department are

7 cl 1/2/03/2021

eligible for this course.

Course Instructor

HoD/CE

Date: 12.03.2021

To be read in

S. No	Class	Sign
1	IV CIVIL	KIhawani

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ADVANCED LEARNER COURSE TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

SYLLABUS

OBJECTIVE

To make the students be familiar with the node and element creation, Properties, supports and load assigning, analysis and design of structural elements using STAAD.Pro.V8i.

UNIT I INTRODUCTION AND MODEL CREATION

Introduction to structural engineering, Introduction to STAAD.Pro.V8i, Getting familiar with STAAD window, Model generation using STAAD editor, Introduction to Snap Node/Beam Editor, Model generation using Node/Beam Editor, Introduction to Translational Repeat, Model generation using Translational Repeat.

UNIT II ANALYSIS AND DESIGN

Assigning Properties, Assigning Supports, Assigning Loads, Structure Analysis, Simply Supported Beam, Analysis of Framed Structure, Applying Floor Loads, Wind Analysis, Seismic Analysis, Creating Load Combinations, Dynamic Analysis, Response Spectrum Analysis, Introduction to FEM, Analysis of Framed Structure Including Slabs

UNIT III ELEMENT DESIGN

Column & Beam Design, Reinforced Concrete Design, Slab Design, Circular Water Tank Design, Rectangular Water Tank Design, Moving Loads.

OUTCOME

On completion of this course the students will have the confidence to complete objectinstinctive 2D/3D graphic model generation and to design beams/columns/slabs/footings as per all major international codes. concrete

THEORY:30 PERIODS

ASSESSMENT:2 PERIODS

TOTAL:32 PERIODS

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ADVANCED LEARNER COURSE

TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

Lesson Plan & Schedule

S.NO	DATE	TOPIC	No. of Hours
1.	15.03.2021	Introduction to structural engineering - Introduction to STAAD.Pro.V8i	2
2.	16.03.2021	Getting familiar with STAAD window, Model generation using STAAD editor	2
3.	17.03.2021	Introduction to Snap Node/Beam Editor	2
4.	18.03.2021	Model generation using Node/Beam Editor	2
5.	19.03.2021	Introduction to Translational Repeat, Model generation using Translational Repeat	3
6.	20.03.2021	Structure Analysis, Simply Supported Beam, Analysis of Framed Structure, Applying Floor Loads	5
7.	23.03.2021	Assigning Properties, Assigning Supports, Assigning Loads	2
8.	24.03.2021	Wind Analysis, Seismic Analysis	2
9.	25.03.2021	Creating Load Combinations, Dynamic Analysis	4
10.	26.03.2021	Response Spectrum Analysis, Introduction to FEM, Analysis of Framed Structure Including Slabs	3
11.	01.04.2021	Column & Beam Design, Reinforced Concrete Design	2
12.	05.04.2021	Slab Design, Circular Water Tank Design	2
13.	07.04.2021	Rectangular Water Tank Design, Moving Loads	2
14.	16.04.2021	Assessment	1
		Total Hours	34

Volume Instructor

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HoD/CE

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ADVANCED LEARNER COURSE

TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

COURSE EVALUATION

The assessment of the students shall be based on the following parameters.

Evaluation Parameter	Weightage (in %)
Attendance	50
Assessment	50

The minimum passing requirement for the completion of course is 60%

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ADVANCED LEARNER COURSE TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

NAME LIST

S. No.	Reg. No.	Student Name	Signature
1	953117103002	ANITHA.M	Anthum
2	953117103004	INDHIRA. M	Diall 1
3	953117103007	SAUMYA. G. K	D'nollier K. G. Sawryp
4	953117103008	SELCIYA. T	T. Scheiga
5	953117103009	SELVA MAHESWARI. B	Selva.
6	953117103010	SORNAMMAL. S	Sarry
7	953117103011	SOUNDARYA. P	Sernalay
8	953117103301	SUDHA. M	Sudher: M.

A (2)03/2022.

Course Instructor

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ADVANCED LEARNER COURSE TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

ATTENDANCE SHEET

S. No	Roll No.	Student Name	Day 1	Day 2	Day 3	Day 4	Day 5	5 Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Sign
			15.03. 2021	16.03. 2021	17.03. 2021	18.03. 2021	19.03 2021	22.03.	23.03. 2021	24.03. 2021	25.03. 2021	26.03. 2021	01.04. 2021	05.04. 2021	07.04.	16.04.	
1	953117103002	ANITHA.M	,	1	,	1	1	1	,	,	1		2021	2021	2021	2021	1
2	953117103004	INDHIRA. M	,	,						/	-	/	/	/	/	1	Anitha
3	953117103007	SAUMYA. G. K	1	/	/	/	/	/	a	/	a	1	/	1	1	1	M. Ind
	953117103008		/	/	1	1	/	1	1	1	1	1	1	/	1	,	4. Kgay
4		SELCIYA. T SELVA MAHESWARI.	/	/	/	1	1	1	1	1	1	1	,	1	/	,	Suns
5	953117103009	B BELVA MAHESWARI.	1	1	/	1	1	1	,		,	/	,				
6	953117103010	SORNAMMAL. S	/	a	1		/	,					/		/	/	Schurch
7	953117103011	SOUNDARYA. P	,		,	,			/		/	/	/	a	1	1	S. Surans
0	953117103301	SUDHA. M	/	/		/	/	/	/	/	1	/	/	1	1	/ 6	Soundanger
8		CODINI. IVI	/	/	/	/	1	1	1	1	/	,	/	a	,		M. Cor
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Photos

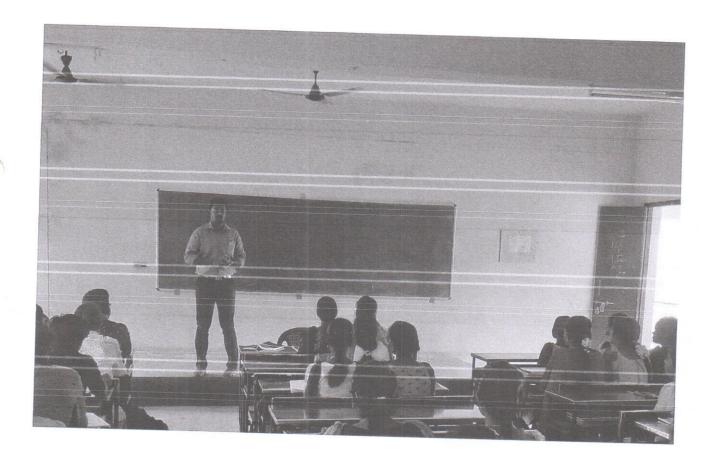


Fig. 1. Content Delivery

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ADVANCED LEARNER COURSE

TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES ASSESSMENT

COURSE CONT				
COURSE CODE & NAME	:			
DEPARTMENT	:			
NAME OF THE STUDENT	:			
REG. NO.	:		ACADEMIC	CVEAR
YEAR	:		SEM	C YEAR:
			SEM	: Total Marks: 50
 One of the biggest reasons competition. a. residential b. commercial c. civil d. structural steel 	Part- A (that BIM has h	(10*1= 10) ad more growth	in the	
 2. In a typical CADD workflown a. 4D b. 2D c. 3D d. Isometric 	w, dra	wings are create	ed to represent t	the building.
3. All views are stored in a(n) 2D drawing files. a. off-site b. local c. regional d. central	file, elim	ninating the need	to create and n	manage separate
 4. One of the first steps in imple a. chief drafter b. job captain c. BIM manager d. lead architect 	ementing BIM	is to appoint a	·	
5. The virtual building model in a E project.a. Trueb. False	BIM project, calle	ed a BIM model, s	serves as the fou	undation of the
 Detailing is the process of using a. True b. False 	3D geometry to		"ar	
	10	WANNE Ch	ASHARANI ENGIN Chathirampuduku ildambaranagar - Ve Thatchanallur, Tirun	AL REERING COLLEGE Ham Village, Ppemkulam Road, Pelveli - 627 358.

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- 7. Construction stimulation is an animation that illustrates construction processes in any order.
 - b. False
- 8. View range defines the range of visibility for objects in a plan view.
 - a. True
 - b. False
- 9. Detailed components are view-specific lines that only appear in the view in which they are
 - a. True
 - b. False
- 10. A file configured with predefined setting, model content, and views that can be applied to a
 - a. View template
 - b. Project template
 - c. BIM model
 - d. Construction simulation

Part- B (20*2=40)

- 1. By default, Response Reduction Factor Value for Special RC Moment Resisting Frame is?
 - b) 3
 - c) 6
 - d) 5
- 2. STAAD.Pro Perform Analysis is:
 - a) Taking into consideration the Displacement of Nodes
 - b) Taking into consideration the Stiffness Corection
 - c) Multi-Iteration Analysis
 - d) None of the Above
- 3. In track parameter, we have which of the following values?
 - a) 2,3,4
 - b) 0,1,2
 - c) 1,0,2
 - d) 1,2,3
- 4. In floor load, Y is the:
 - a) Affective height
 - b) Floor height
 - c) Building height
 - d) All of the Above
- 5. In Concentrated Load, P is:
 - a) All of the above
 - b) Force Direction
 - c) Perpendicular distance from the member

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d) Value of Lead
a) value of Load
6. How many types of Models are available in the Structure Wizard?
a) 5
b) 8
c) 7
d) 6
 Dead loads are self-weights of material, equipment, or components that are relatively constant throughout the structure's life.
throughout the structure's life.
a) true
b) false
 In concrete design parameter, by default, value for clt (Clear Cover top) is:
b) 12mm
c) 30mm
d) 20mm
9. How many types of meshing we have in STAAD.Pro?
4) 1
b) 2
c) 5
d) 4
10. You can also edit the parameters in structure wizards models
w) 11tt
b) false 11. The group allows you to show at the state of
a) Modeling Scale group allows you to change the display of load arrows.
b) Loading Scale
c) Displacement
d) Result Scales
12. Pinned Support will have reactions.
a) 2 reactions.
b) 6
c) 4
d) 3
13. With the help of which of the following functions, you can duplicate Nodes, Beams, and Plates, in the direction of X,Y,Z?
in the direction of X,Y,Z?
a) Circular Repeat
b) Mirror
c) Translational Repeat
d) Insert Nodes
14. For Plates, Which one of the following is true?
a) Ill older to release a Plate voli can release the Dooms 1-11
c) You can release more than one Nodes of the Plates.
a) Options B & C.
15. In how many ways can we assign support to Nodes?
a) 1 b) 4

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- 16. The minimum and maximum limits of number of divisions of each side are 1 to 100.
 - b) false
- 17. In Meshing Parametric dialog box, by default, bias value is ___ and divi value is ___.
 - b) Bias is 1 Divi is 11
 - c) Bias is 2 Divi is 10
 - d) Bias is 1 Divi is 10
- 18. B.E.A.V.A supports:
 - a) UK BS 5400
 - b) IRC chapter 2
 - c) IS 456
 - d) All of the Above
- 19. Which of the following sub-pages are in Foundation Plan Pages?
 - a) Linear Grid Setting
 - b) Radial Grid Setup
 - c) Column Positioning
 - d) Column Dimension and width
- 20. Indian Standard Criteria for Earthquake Resistant design of Structure is?

 - b) Is 1893-2002
 - c) Is 1892-2005
 - d) Is 1892-2003

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ADVANCED LEARNER COURSE

TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES ASSESSMENT

COURSE CODE & NAME DEPARTMENT NAME OF THE STUDENT REG. NO. YEAR	: TECAL COOS & BASIC PROGRAM IN : CIVIL ENGINEERING STATAD PRO FOR R.C.C STRUCTURES : SELVA MAHESWARI Y : 95311710300ACADEMIC YEAR: 2020-2021 : IV SEM: VIII:
One of the biggest reasons the competition. a. residential b. commercial c. civil d. structural steel	Part- A (10*1=10) at BIM has had more growth in the sector is
2. In a typical CADD workflow, a. 4D b/ 2D c. 3D d. Isometric	drawings are created to represent the building.
3. All views are stored in a(n) separate 2D drawing files. a. off-site b. local c. regional de central	file, eliminating the need to create and manage
 4. One of the first steps in implementation. b. job captain BIM manager d. lead architect 	enting BIM is to appoint a
 The virtual building model in a BIM project. True False 	project, called a BIM model, serves as the foundation of the
Detailing is the process of using 3D a. True False	geometry to represent non-modeled features in views. PRINCIPAL PRINCIPAL THAMIRABHARANI ENGINEERING COLLUM Chathirampudukulam Village, Chathirampudukulam Vepemkulam Road.

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7.	Construction order.	action stimulation is an animation that illustrates construction processes in any
/	a.	True

b. False

8. View range defines the range of visibility for objects in a plan view.

b. False

9. Detailed components are view-specific lines that only appear in the view in which they are a. True

b. False

10. A file configured with predefined setting, model content, and views that can be applied to

a. View template

b. Project template

c. BIM model

d. Construction simulation

Part- B (20*2= 40)

1. By default, Response Reduction Factor Value for Special RC Moment Resisting Frame is?

b) 3

c) 6

d) 5

2. STAAD.Pro Perform Analysis is:

a) Taking into consideration the Displacement of Nodes

b) Taking into consideration the Stiffness Corection

c) Multi-Iteration Analysis

None of the Above

3. In track parameter, we have which of the following values?

a) 2,3,4

-b) 0,1,2

c) 1.0.2

d) 1.2.3

4. In floor load, Y is the:

a) Affective height

b) Floor height

c) Building height

All of the Above

5. In Concentrated Load, P is:

a) All of the above

b) Force Direction

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c) Perpendicular distance from the member
Value of Load
6. How many types of Models
6. How many types of Models are available in the Structure Wizard?
b) 8
0) 6
d) 6
7. Dead loads are self-weights of material, equipment, or components that are relatively constant throughout the structure's life
constant throughout the structure's life.
a) true
b) false
8. In concrete design parameter, by default, value for clt (Clear Cover top) is:
b) 12mm
c) 30mm
d) 20mm
9. How many types of meshing we have in STAAD.Pro?
a) 1
b) 2'
c) 5
d) 4
10. You can also edit the parameters in structure wizards models
a) lide
b) false
11. The group allows you to change the display of load arrows.
a) Modeling Scale
b) Loading Scale
c) Displacement
Result Scales
12 Pinns 10
12. Pinned Support will have reactions.
a) 2
b) 6
c) 4
d) 3
13. With the help of which of the following functions, you can duplicate Nodes, Beams, and Plates, in the direction of X, Y, Z?
Plates, in the direction of X,Y,Z?
a) Circular Repeat
b) Mirror
Translational Repeat
d) Insert Nodes
14. For Plates, Which one of the following is true?
a) Ill order to release a Plate you can release the Doorse I. It.
b) You can release the Nodes of the Plates.
c) You can release more than one Nodes of the Plates.
Options B & C.
15 In how many worse con .
15. In how many ways can we assign support to Nodes?
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d) 5

16. The minimum and maximum limits of number of divisions of each side are 1 to 100.

a) true

b) false

17. In Meshing Parametric dialog box, by default, bias value is ___ and divi value is ___.

a) Bias is 1 Divi is 15

b) Bias is 1 Divi is 11

c) Bias is 2 Divi is 10

Bias is 1 Divi is 10

18. B.E.A.V.A supports:

a UK BS 5400

b) IRC chapter 2

c) IS 456

d) All of the Above

19. Which of the following sub-pages are in Foundation Plan Pages?

a) Linear Grid Setting

b) Radial Grid Setup

c) Column Positioning

d) Column Dimension and width

20. Indian Standard Criteria for Earthquake Resistant design of Structure is?

a) Is 1893-2003

b) Is 1893-2002

c) Is 1892-2005

d) Is 1892-2003

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ADVANCED LEARNER COURSE

TECALC008 – BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES ASSESSMENT

COURSE CODE & NAME DEPARTMENT NAME OF THE STUDENT REG. NO. YEAR	: TECAL COOP- BASIC : CIVIL : T- SELCIYA : 953117103008 : N	ACADEMIC YEAR: 20 - 21 SEM: WIII Total Marks: 50
One of the biggest reasons the competition. a. residential b. commercial c. civil d. structural steel	Part- A (10*1=10) at BIM has had more growth	
2. In a typical CADD workflow, a. 4D b. 2D c. 3D d. Isometric	drawings are create	ed to represent the building.
 3. All views are stored in a(n) separate 2D drawing files. a. off-site b. local c. regional d. central 	file, eliminating the need	to create and manage
 4. One of the first steps in implen a. chief drafter b. job captain c. BIM manager d. lead architect 	nenting BIM is to appoint a _	
 The virtual building model in a BII project. a True b. False 	M project, called a BIM model, s	serves as the foundation of the
Detailing is the process of using 3 a. True b. False	D geometry to represent non-m	nodeled features in views.



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- 7. Construction stimulation is an animation that illustrates construction processes in any
 - a. True
 - b. False
- 8. View range defines the range of visibility for objects in a plan view.
 - a. True
 - b. False
- 9. Detailed components are view-specific lines that only appear in the view in which they are
 - a. True
 - b. False
- 10. A file configured with predefined setting, model content, and views that can be applied to
 - a. View template
 - b. Project template
 - c. BIM model
 - d. Construction simulation

Part- B (20*2= 40)

- 1. By default, Response Reduction Factor Value for Special RC Moment Resisting Frame is?

 - b) 3
 - c) 6
 - d) 3
- 2. STAAD.Pro Perform Analysis is:
 - a) Taking into consideration the Displacement of Nodes
 - b) Taking into consideration the Stiffness Corection
 - c) Multi-Iteration Analysis
 - d) None of the Above
- 3. In track parameter, we have which of the following values?
 - a) 2,3,4
 - b) 0,1,2
 - c) 1.0.2
 - d) 1.2.3
- 4. In floor load, Y is the:
 - a) Affective height
 - b) Floor height
 - c) Building height
 - d) All of the Above
- 5. In Concentrated Load, P is:
 - a) All of the above
 - b) Force Direction

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c) Perpendicular distance from the member
d) Value of Load
6 How many tymes of Maria
6. How many types of Models are available in the Structure Wizard? a) 5
2) 2
b) 8
c) 7
d) 6
7. Dead loads are self-weights of material, equipment, or components that are relatively constant throughout the structure's life
constant throughout the structure's life.
a) true
b) false
8. In concrete design parameter, by default, value for clt (Clear Cover top) is:
b) 12mm
c) 30mm
d) 20mm
9. How many types of meshing we have in STAAD.Pro?
a) 1
b) 2
✓ c) 5
d) 4
10. You can also edit the parameters in structure wizards models
a) True
b) false
11. The group allows you to show at the state of the stat
a) Modeling Scale group allows you to change the display of load arrows.
b) Loading Scale
c) Displacement
d) Possile C. 1
d) Result Scales
12. Pinned Support will have reactions.
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13. With the help of which of the following functions, you can duplicate Nodes, Beams, and Plates, in the direction of X, Y, Z?
Plates, in the direction of X,Y,Z?
a) Circular Repeat
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d) Insert Nodes
14. For Plates, Which one of the following is true?
a) Ill order to release a Plate vou can release the Booms 1-11:
b) You can release the Nodes of the Plates.
c) You can release more than one Nodes of the Plates.
d) Options B & C.
15 In how many ways can are
15. In how many ways can we assign support to Nodes?
a) 1
b) 4

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c) 2 d) 5

- 16. The minimum and maximum limits of number of divisions of each side are 1 to 100.
 - a) true

b) false

- 17. In Meshing Parametric dialog box, by default, bias value is ___ and divi value is ___.
 - a) Bias is 1 Divi is 15
 - b) Bias is 1 Divi is 11
 - c) Bias is 2 Divi is 10
 - d) Bias is 1 Divi is 10
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 - a) UK BS 5400
 - b) IRC chapter 2
 - c) IS 456
 - d) All of the Above
- 19. Which of the following sub-pages are in Foundation Plan Pages?
 - a) Linear Grid Setting
 - b) Radial Grid Setup
 - c) Column Positioning
 - d) Column Dimension and width
- 20 Indian Standard Criteria for Earthquake Resistant design of Structure is?
 - a) Is 1893-2003
 - b) Is 1893-2002
 - c) Is 1892-2005
 - d) Is 1892-2003



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ADVANCED LEARNERS COURSE

TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

ASSESMENT MARKS

S.No	.No Roll No. Student Nar		Assessment (50)	Total (100)	
1	953117103002	ANITHA.M	42	84	
2	953117103004	INDHIRA. M	43	86	
3	953117103007	SAUMYA. G. K		84	
4	953117103008	SELCIYA. T	45	90	
5	953117103009	SELVA MAHESWARI. B	45	90	
6	953117103010	SORNAMMAL. S	44	88	
7	953117103011	SOUNDARYA. P	46	92	
8	8 953117103301 SUDHA. M		42	84	

Course Instructor

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HoD/CE

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ADVANCED LEARNERS COURSE

TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

FEEDBACK FORM

COURSE CODE & NAME

DEPARTMENT

NAME OF THE STUDENT

REGISTER NUMBER

YEAR

: TECALOUS - BOSIC PROGRAM in STREET PRO PUR the sommer

Civil

: T-

: 7 - SE LLIYA

: 9 5 1117103008

ACADEMIC YEAR: 20- 21

SEM

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you?

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The course assessment conducted was adequate

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes/No

Solar or SIGNATURE OF THE STUDENT

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ADVANCED LEARNERS COURSE TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

FEEDBACK FORM

COURSE CODE & NAME

: TECALCOOS & BASIC PROGRAM IN

DEPARTMENT

: CIVIL ENGINEERING STADD PRO FOR RCC

NAME OF THE STUDENT

: SELVA MAHESWARI .V

REGISTER NUMBER

:95 3117/03009 ACADEMIC YEAR: 2020-21

YEAR

: 7

SEM

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you?

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

4. High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

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D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes / No

Sche man

SIGNATURE OF THE STUDENT

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		athirampudukulam, Chidambaranagar - Vepemkulam Road Thatchanallur, Tirunelveli 627 358, Tamil Nadu.		
		REPORT		
1	Program name	TECALCO08 - BASIC PROGRAM IN STAAD.PRO FOI RCC STRUCTURES		
2	Date of program duration	15.03.2021 to 16.04.2021		
3	Resource person	Mr V. C. Suntar Raajan, AP/Civil/TEC		
4	Participants	16		
5	Objective of program	The main objective of this program is to inculcate the advanced knowledge to the advanced learning students of civil engineering department and to make the students to complete object-oriented instinctive 2D/3D graphic model generation and achieve user-specified design parameters to customize a design.		
5 1	Program description	STAAD.Pro is one of the popular software that is used for analysing & designing structures like – buildings, towers, bridges, industrial, transportation and utility structures. Designs may include any building structures like tunnels, culverts, bridges, piles, petrochemical plants; and building materials like timber, concrete, steel, cold-formed steel, and aluminium. STAAD.Pro v8i, the latest version, allows civil engineering individuals to analyse structural designs in terms of factors like force, load, displacements etc. Participants are equipped with various software functionalities like model generation and editing; loading analysis and concrete designing. This course		

also offers proficiency in using the seismology report Chathirampudukulam viita 3° kood. Chathirampudukulam vepemkulam kood. Chidambaranagar Vepemkulam 627 358. Chidambaranagar Tirunelyeli 627 358.



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	The second secon	Thatehallallur, Thullelvell 627 338, Tamil Nadu.		
		generation, and steel and foundation design features. After		
		completing the STAAD.Pro v8i training, individuals can work		
		as Structure Designers, Project Managers, Building Analysts,		
		Quality Analysts and Bridge Designers		
		On completion of this course the students will introduce one to		
7	Outcome of this	STAAD Pro's state of the art user interface, prevailing analysis		
	program	and design engines with a sophisticated finite element (FEM),		
		visualization tools, and dynamic analysis capabilities.		

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COURSE INSTRUCTOR

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COURSE SUMMARY

Course Name	Course Instructor	No. Of Hours	Course Period	Total No. Of Registered Students	Total No. Of Attended Students
TECALC008 – BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES	Mr V. C. Suntar Raajan, AP /Civil/TEC	34	15.03.2021 to 16.04.2021	08	08

Vest (2) 19/04/2021

Course Instructor

HoD/CE

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Thamirabharani Engineering College

Department of Computer Science and Engineering

List of Courses

Special Programmes for Advanced Learners (Academic Year: 2020-2021)

S.No	Name of the Course	Course Competency	Semester	Year	Staff In charge	
1	Linux - Learning Commands and Shell Scripting	Core	3		Mrs. G. Durga Devi, AP / CSE	
2	Block Chaining – Understanding it's uses and Applications	Core	4	2	Mr. M. Ramnath, AP/ CSE	
3	Scilab Integrated Development Environment	Inter-Disciplinary	5		Mr. E. Subramanian AP/ EEE	
4	Web Development using ASP.NET	Inter-Disciplinary	6	3	Mr. R. Jeeva, AP/CSE Mrs. M. Suganthi, AP/CSE	
5	Android Development using Java	Inter-Disciplinary	7			
6	MATLAB and its Applications in Engineering	Inter-Disciplinary	8	4	Mrs. P. Saravanaselvi, AP/ECE	

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ADVANCED LEARNER COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND **IMPLICATIONS**

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TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS

Course curriculum prepared by

: Mr. M. Ramnath, AP / CSE

Approved by (Head of the Department) :

Approved by the CSE Department Advisory committee meeting held on:

Approved by the (No.) IQAC meeting held on:

Approved by the (No.) Governing Council meeting conducted on:

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ADVANCED LEARNER COURSE TECALC004 – BLOCK CHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS INDEX

S. No.	Particulars	Page No.
1	Circular	4
2	Syllabus	-
3	Lesson Plan	6
4	Course Evaluation	7
5	Advance learner name list	8
6	Attendance Sheet	9
7	Photos	11
8	Assessment	12
9	Assessment Marks	22
10	Feedback	23
11	Report	27
12	Course Summary	28

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CIRCULAR

Ref: TEC/CSE/2020-21/EVEN/ALC/04

Date: 12.03.2021

In order to make the student industry ready engineers and to provide advanced quality training to the advanced learners of Second year of Computer Science and Engineering department, the course "TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS" by Mr. M. Ramnath, AP/CSE is being offered to enhance employability of the students, technical skills and make them more competitive. Course commences from 15.03.2021 to 16.04.2021. Students are instructed to make use of the opportunity. Advanced learners of final year of civil engineering department are eligible for this course.

Course Instructor

To be read in

S. No	Class	Sign
1	II CSE	The.

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ADVANCED LEARNER COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS

SYLLABUS

OBJECTIVE

- 1. Enhance the understanding of essential blockchain terms, characteristics and concepts
- 2. Autonomously explain the basic concepts of blockchain technology within a given scenario
- 3. Give an account of the advantages and disadvantages of the features of a specific blockchain application

Introduction to Blockchain

Introduction to Blockchain - Basics of Blockchain-Distributed Ledgers-Cryptography-Transparency-Immutability-Smart Contracts-Blockchain Security-Public and Permissioned Blockchains-Blockchain Flow-Consensus and Fault Tolerance-Governance and Blockchain-Identity and Anonymity on Blockchain-Trust and Trustless

Governance and Consensus

Standard vs. Blockchain Governance – Consensus - Governance with Autonomy - Governance for Enterprise.

Blockchain Problem Solving

Immutability - Transparency - Autonomy - Multi-Party Transactions - Double Spend

Blockchain Use Cases

Blockchain Use Cases – Healthcare – Voting - Identity Management - Land Records and Government - Blockchain with Supply Chain - Future of Blockchain.

OUTCOME

Students will be able to:

- 1. Understand how blockchain systems (mainly Bitcoin and Ethereum) work
- 2. To securely interact with them
- 3. Design, build, and deploy smart contracts and distributed applications
- 4. Integrate ideas from blockchain technology into their own projects.

THEORY: 30 PERIODS

ASSESSMENT: 2 PERIODS

TOTAL: 32 PERIODS

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ADVANCED LEARNER COURSE

TECALC004 – BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS Lesson Plan & Schedule

		Lesson Plan & Schedule	
S.NO	DATE	TOPIC	No. of Hours
1.	15.03.2021	Introduction to Blockchain, Basics of Blockchain, Distributed Ledgers	2
2.	16.03.2021	Cryptography, Transparency, Blockchain Security	2
3.	17.03.2021	Public and Permissioned Blockchains, Blockchain Flow, Consensus and Fault Tolerance	2
4.	18.03.2021	Governance and Blockchain, Identity and Anonymity on Blockchain, Trust and Trustless	2
5.	19.03.2021	Standard vs. Blockchain Governance, Consensus, Blockchain Security	3
6.	20.03.2021	Rectangular Water Tank Design, Moving Loads,	5
7.	23.03.2021	Governance with Autonomy, Governance for Enterprise, Immutability	2
8.	24.03.2021	Transparency, Autonomy, Multi-Party Transactions	2
9.	25.03.2021	Double Spend, Blockchain Use Cases,	2
10.	26.03.2021	Healthcare, Voting,	2
11.	01.04.2021	Identity Management, Land Records and Government	2
12.	05.04.2021	Blockchain with Supply Chain, Future of Blockchain	2
13.	07.04.2021	Future of Blockchain	2
14.	16.04.2021	Assessment	2
		Total Hours	32

Course Instructor

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Thatchanallur, Tirunelveli 627 358, Tamil Nadu.

ADVANCED LEARNER COURSE

TECALC004 – BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS COURSE EVALUATION

The assessment of the students shall be based on the following parameters.

Evaluation Parameter	Weightage (in %)
Attendance	50
Assessment	50

The minimum passing requirement for the completion of course is 60%

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THAMIRABHARANI ENGINEERING COLLEGE
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Thatchanallur, Tirunelveli 627 358, Tamil Nadu.

ADVANCED LEARNER COURSE

TECALC004 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

NAME LIST

			(*)
S. No.	Reg. No.	Student Name	Signature
1	953119104002	ARUNA R	D. A.
2	953119104003	ARUN KUMAR A	A. Srunkumar
3	953119104004	ARUN MOZHI N	N. Asunmody
4	953119104005	BANU PRIYA S	
5	953119104007	DIVYA BHARATHI J	J. Dinga Bhoratt
6	953119104009	ESAKKIAMMAL M	10.0
7	953119104011	GOMATHI N	M. Esakkiammaf
8	953119104012	HARI PRASATH S	Monadhi
9	953119104014	INDHUMATHI E	3- Hari Prarath
10	953119104015	JEYASRI T	F. Indu Mathi
11	953119104019	KAVITHA A	A. Kavitha
12	953119104020	KAVITHA B	
13	953119104021	KAVITHA V	B. Kowitha
14	953119104024	MAHALAKSHMI E	8 11 D
15	953119104032	MUTHUMARI C	2.111
16	953119104033	NAVINA N	C. Mulyum
17	953119104034	PORSELVI H	M. Davin
18	953119104035	RAJALAKSHMI R	th' Porselvi
19	953119104036	RAJESWARI R	R-Rajalaser
20	953119104038	SANTHANA MEENA R	
21	953119104039	SELVA PRIYA M	R-San Hana Keena M. Selvaprija M. Sivakami
22	953119104041	SIVAKAMI M	M. Simlesmi

Course Instructor

PRINCIPAL

THAMIRABHARANI ENGINEERING COLLEGE

HOD/CSE

Chathirampudukulam Village,

Chidambaranagar - Vepemkulam Road, Thatchanallur, Tirunelveli - 627 358.



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ADVANCED LEARNER COURSE

TECALC004 – BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS ATTENDANCE SHEET

S. No	Reg. No.	Student Name	15/3/21	16/3/21	17/3/21	813/21	19/3/4	20/4/21	23/3/21	24/3/2	1 25/3/14
1	953119104002	ARUNA R	P	P	P	P	P	AB	P	P	P
2	953119104003	ARUN KUMAR A	P	P	P	P	P	P	P	P	P
3	953119104004	ARUN MOZHI N	9	P	AB	P	P	P	P	P	P
4	953119104005	BANU PRIYA S	P	P	P	P	P	9	P	P	P
5	953119104007	DIVYA BHARATHI J	P	P	AB	8	P	P	P	P	P
6	953119104009	ESAKKIAMMAL M	P	P	AB	p	P	P	P	P	P
7	953119104011	GOMATHI N	P	AB	P	P	P	p	b	P	P
8	953119104012	HARI PRASATH S	P	P	P	P	P	P	P	D	D
9	953119104014	INDHUMATHI E	P	P	P	P	P	P	P	P	P
10	953119104015	JEYASRI T	P	P	P	P	P	P	P	P	D
11	953119104019	KAVITHA A	P	P	P	P	P	P	P	P	P
12	953119104020	KAVITHA B	P	p	P	P	P	P	P	P	P
13	953119104021	KAVITHA V	P	P	P	AB	P	P	P	P	P
14	953119104024	MAHALAKSHMI E	P	P	P	P	P	P	P	10	P
15	953119104032	MUTHUMARI C	P	P	P	P	P	AB	P	P	P
16	953119104033	NAVINA N	P	P	P	P	P	P	P	b	P
17	953119104034	PORSELVI H	p	P	P	P	P	P	P	D	P
18	953119104035	RAJALAKSHMI R	P	P	P	P	AB	P	P	P	P
19	953119104036	RAJESWARI R	P	P	P	P	P	P	AB	p	p
20	953119104038	SANTHANA MEENA R	P	P	P	P	P	P	P	P	AB
21	953119104039	SELVA PRIYA M	AB	P	P	P	P	P	P	P	P
22	953119104041	SIVAKAMI M	10	P	P	AB	B	P	P	P	P

Course Instructor

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THAMIRABHARANI ENGINEERING COLLEGE

Chathirampudukulam Village,

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ADVANCED LEARNER COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS ATTENDANCE SHEET

S.		111	TENDA	INCE	SHEE	1		 _		
No ·	Reg. No.	Student Name	26/3/21	1/4/24	5/4/4	7/4/21	1614/21			
1	953119104002	ARUNA R	P	P	P	P	P			
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22	953119104041	SIVAKAMI M	P	P	P	P	P			

Course Instructor

PRINCIPAL

H6D/CSE

THAMIRATHARANI ENGINEERING COLLEGE

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Thatchanallur, Tirunelveli 627 358, Tamil Nadu.

Photos

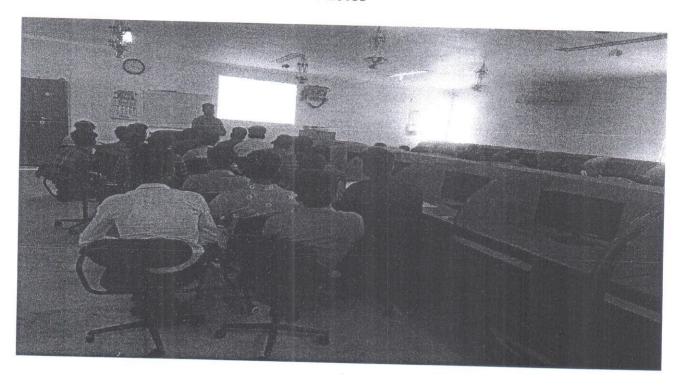


Fig. 1. Content Delivery

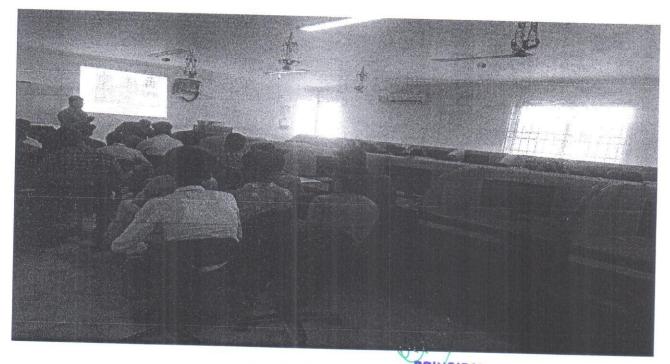


Fig. 2. Content Delivery Engineering College

Chathirempudukulam Village, Chidambaranagar - Vepemkulam Road, Thatchanallur, Tirunelveli - 627 358.



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ADVANCED LEARNER COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS ASSESSMENT

COURSE CODE & NAME

DEPARTMENT

NAME OF THE STUDENT

REG. NO.

YEAR

ACADEMIC YEAR:

SEM

Total Marks: 50

Part- A (10*1=10)

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- B. Peer to Peer
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- A. Loss in profit
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- D. All of these

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THAMIRABHARANI ENGINEERING COLLEGE

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- 7. What is the initial application for which Blockchain was designed?
- A. Peer-to-peer finance application
- B. Research Project
- C. Open source finance software to connect Banks
- D. None of these
- 8. Where is the bitcoin central server located?
- A. Washington DC
- B. Undisclosed Location
- C. London
- D. None of these
- 9. First step of Blockchain project implementation is?
- A. Requirement identification
- B. Feasible study on the security
- C. Controlling and monitoring the project
- D. Screen idea consideration.
- 10. How often does Bitcoin ledger reconcile?
- A. Every day
- B. Every 3 months
- C. Every 3 Minutes
- D. Every 10 Minutes

Part- B (20*2 = 40)

- 11. What is UTXO?
- A. United Transaction Office
- B. United Texan Xerox Organization
- C. Unspent Transaction Output
- D. Union of Texas Operations
- 12. Who invented Merkle Trees?
- A. Ralph Merkle
- B. Ralph Wiggum
- C. Nick Szabo
- D. Vitalik Buterin
- 13. What is a hash function?
- A. fork
- B. UTXO
- C. Takes an input of any length and returns a fixed-length string of numbers and letters
- D. Gas
- 14. What does IPFS stand for?
- A. Interplanetary File System
- B. Inter Filing System
- C. Internet Play Store
- D. Internet Platform for Storage

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- A. VPN
- **B.** Immutability
- C. Crypto currency
- D. Servers
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- A. Double spend
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- A. True
- B. False
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- A. Multiple people simultaneously.
- B. One person at a time.
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THAMIRABHARANI ENGINEERING COLLEGE

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- 23. Once records are submitted on a blockchain, can they be altered?
- A. Yes the parties can go back in and alter them at any time.
- B. Yes but only within a certain time frame.
- C. No they cannot be altered.
- D. None of the above
- 24. Is it possible to program a blockchain to record transactions automatically?
- A. Yes
- B. No
- 25. When did bitcoin's creator publish a whitepaper introducing the digital currency?
- A. 2007
- B. 2008
- C. 2009
- D. 2010
- 26. What is the maximum number of bitcoin's that can be created?
- A. 16 million
- B. 21 million
- C. 100 million
- D. There is no maximum
- 27. Which of the following is a now-defunct Bitcoin exchange?
- A. Bit Box
- B. Mt Fox
- C. Mt Gox
- D. Ft Nox
- 28. What is the process of creating new bitcoin's popularly known as?
- A. Finding
- B. Panning
- C. Sourcing
- D. Mining
- 29. Which of the following is popularly used for storing bitcoin's?
- A. Pocket
- B. Wallet
- C. Box
- D. Stack
- 30. Which site run by Ross Ulbricht was closed by the FBI for letting people buy drugs with Bitcoin?
- A. Silk Road
- B. Lace Place
- C. Silk Street
- D. Dark Alley

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ADVANCED LEARNER COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS ASSESSMENT

COURSE CODE & NAME

:TECALCOOH - BLOCKCHAIN : UNDERSTANDING ITS USES AND

IMPLICATIONS

DEPARTMENT

: CSE

NAME OF THE STUDENT

: M. SIVAKAMI

REG. NO.

: 953119104041

ACADEMIC YEAR: 2020-21 (even sm

YEAR

: ना

SEM

: IV

Total Marks: 50

Part- A (10*1=10)

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ADVANCED LEARNER COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS ASSESSMENT

COURSE CODE & NAME

: TECAL COO4 - BLOCKCHAIN: UNDERSTANDINGITS USES AND

IMPLICATIONS, &

DEPARTMENT

: USE

NAME OF THE STUDENT

: M-ESAKKIAMMAL

REG. NO.

: 953119104009

ACADEMIC YEAR: 2020-2021 (even)

YEAR

: 11.

: 4

Total Marks: 50

Part- A (10*1=10)

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COURSE CODE & NAME

TECALOO4 - BLOCKHAIN: UNDERSTANDING ITS USES AND

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DEPARTMENT

. CSE

NAME OF THE STUDENT

: ROSANTHANA MEENA

REG. NO.

953119104038

ACADEMIC YEAR: 2020-21 Livensem

YEAR

19

SEM

12

Total Marks: 50

Part- A (10*1=10)

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- 19. What are side chains?
- A. Another term for a hash function
- B. Smart Contracts that have forked off the main Blockchain
- parallel network running adjacent to the main blockchain network for additional security
- D. Any mechanism that allows tokens from one blockchain to be securely used within a completely separate Blockchain
- 20. What is a Lite Client?
- A. Allows you to interact with the blockchain without downloading the whole blockchain
- B. A type of crypto currency
- C. A platform to develop Apps
- D. A server
- 21. Blockchain is the same as Bitcoin.
- A. True
- B. False
- 22. When a record is on a blockchain, who can access it?
- A. Multiple people simultaneously.
- B. One person at a time.
- C. Only the people involved in the transaction.

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THAMIRABHARANI ENGINEERING COLLEGE

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ADVANCED LEARNERS COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS ASSESMENT MARKS

S. NO.	REGISTER NO.	STUDENT NAME	ASSESSMENT (50)	TOTAL (100)
1	953119104002	ARUNA R	42	84
2	953119104003	ARUN KUMAR A	46	92
3	953119104004	ARUN MOZHI N	44	88
4	953119104005	BANU PRIYA S	40	80
5	953119104007	DIVYA BHARATHI J	39	78
6	953119104009	ESAKKIAMMAL M	47	94
7	953119104011	GOMATHI N	40	80
8	953119104012	HARI PRASATH S	42	84
9	953119104014	INDHUMATHI E	43	86
10	953119104015	JEYASRI T	41	82
11	953119104019	KAVITHA A	40	80
12	953119104020	KAVITHA B	39	78
13	953119104021	KAVITHA V	43	86
14	953119104024	MAHALAKSHMI E	44	88
15	953119104032	MUTHUMARI C	42	84
16	953119104033	NAVINA N	41	82
17	953119104034	PORSELVI H	39	78
18	953119104035	RAJALAKSHMI R	40	80
19	953119104036	RAJESWARI R	43	86
20	953119104038	SANTHANA MEENA R	46	92
21	953119104039	SELVA PRIYA M	45	90
22	953119104041	SIVAKAMI M	44	88

Course instructor

HoD/CSE

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ADVANCED LEARNERS COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS FEEDBACK FORM

COURSE CODE & NAME

: TECALCOOH - BLOCKCHAIN: UNDERSTANDINGITS USES AND

IMPLICATIONS

DEPARTMENT

: COMPUTER SCIENCE AND ENGINEERING

NAME OF THE STUDENT

: J. DIWA BHARATH

REGISTER NUMBER

: 953119104007

ACADEMIC YEAR: 2020-21 PMLA

YEAR

: 11

SEM

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you?

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

4. High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The course assessment conducted was adequate

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4/Agree 5. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes / No

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ADVANCED LEARNERS COURSE

TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS FEEDBACK FORM

COURSE CODE & NAME

: TECALCOO4 - BLOCKCHAIN: UNDERSTANDING ITS USIES AND APPLICATI

DEPARTMENT

: COMPUTER SCIENCE AND ENGINEERING

NAME OF THE STUDENT

: A. ARUNKUMAR

REGISTER NUMBER

: 953119104003

ACADEMIC YEAR: 2020 - 21 (EVEN)

YEAR

: 11

SEM

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you?

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E. Were objectives of the course realized? Yes / No

SIGNATURE OF THE STUDENT

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ADVANCED LEARNERS COURSE

TECALC004 – BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS FEEDBACK FORM

COURSE CODE & NAME

: TECALCOOK - BLOCKCHAIN: UNDERSTANDING ITS USES

DEPARTMENT

: CSE

NAME OF THE STUDENT

: E-MAHALAKSHMI

REGISTER NUMBER

: 953119104024

ACADEMIC YEAR: 2020- 2021

YEAR

: 11

SEM

(Even)

AND IMPLICATIONS

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you? Yes / No

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SIGNATURE OF THE STUDENT

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ADVANCED LEARNERS COURSE

TECALC004 – BLOCKCHAIN: UNDERSTANDING ITS USES AND IMPLICATIONS FEEDBACK FORM

COURSE CODE & NAME

: TE CAL DO4 - BLOCK CHAIN: UNDESTANDENCE TTS USES AN

DEPARTMENT

CZE

NAME OF THE STUDENT

R. SANTHANA METENA

REGISTER NUMBER

: 953119104038

ACADEMIC YEAR : N 2020-21 WENS

YEAR

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SEM

: Iv

THE DESIGN OF THE COURSE

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E. Were objectives of the course realized? Yes No

R. santhura kura SIGNATURE OF THE STUDENT

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		REPORT			
1	Program name	TECALC004 - BLOCKCHAIN: UNDERSTANDING ITS			
		USES AND IMPLICATIONS			
2	Date of program duration	15.03.2021 to 16.04.2021			
3	3 Resource person Mr. M. Ramnath, AP /CSE/TEC				
4	Participants	22			
		The main objective of this program is to inculcate the advanced			
		knowledge to the advanced learning students of Computer			
5	Objective of program	Science and Engineering department and to make the students to			
		understand Blockchain: Understanding its Uses and			
		Implications			
		Decentralized blockchain-based systems, such as Bitcoin and			
		Ethereum, are successful beyond all expectations. Although still in			
		their infancy, they promise to revolutionize how we think of financial,			
		information, and other infrastructures. This course covers the technical			
		aspects of public distributed ledgers, blockchain systems,			
6	Program description	cryptocurrencies, and smart contracts. Students will learn how these			
	8	systems are built, how to interact with them, how to design and build			
		secure distributed applications. The course period was from			
		15.03.2021 to 16.04.2021 conducted for 34 hours. 22 students			
		have enrolled in this course and 22 students have successfully			
		completed the course. After successful completion certificates			
		are provided.			
		On completion of this course the students will Design, build, and			
7	Outcome of this program	deploy smart contracts and distributed applications and Integrate			
		ideas from blockchain technology into their own projects.			

Course Instructor

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HoD/CSE

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ADVANCED LEARNERS COURSE TECALC008 - BASIC PROGRAM IN STAAD.PRO FOR RCC STRUCTURES

COURSE SUMMARY

Course Name	Course Instructor	No. of Hours	Course Period	Total No. of Registered Students	Total No. of Attended Students
TECALC004 – BLOCKCHAIN: UNDERSTANDI NG ITS USES AND IMPLICATIONS	Mr. M. Ramnath, AP/CSE-TEC	32	to 16.04.2021	22	22

Course Instructor

THAMIRASHASANI ENGINEERING COLLEGE Chathirampudukulam Village,

Chicherbaranagar - Vepemkulam Road, Thatchanallur, Tirunelveli - 627 358.

Thamirabharani Engineering College

Department of Electronics and Communication Engineering

List of Courses

Special Programmes for Advanced Learners (Academic Year: 2020-2021)

S.No	Name of the Course	Course Competency	Semester	Year	Staff In charge
1	Proteus Design Suite Software	Core	3		Mr. S. R. Sam Kingsley, AP/ ECE
2	The Arduino Platform and C Programming	Core	4	2	Mr. A. Niyas Ahamed, AP/ ECE
3	Scilab Integrated Development Environment	Inter-Disciplinary	5		Mr. E. Subramanian AP/ EEE
4	Web Development using ASP.NET	Inter-Disciplinary	6	3	Mr. R. Jeeva, AP/CSE
5	Android Development using Java-	Inter-Disciplinary	7		Mrs. M. Suganthi, AP / CSE
6	MATLAB and its Applications in Engineering	Inter-Disciplinary	8	4	Mrs. P. Saravanaselvi, AP/ECE



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ADVANCED LEARNER COURSE

TEC ECAL007- PROTEUS DESIGN SUITE SOFTWARE

(Electronics & Communication Engineering)

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TEC ECAL007- PROTEUS DESIGN SUITE SOFTWARE

Course curriculum prepared by

: Mr. S. R. SAM KINGSLEY, AP/ECE

Approved by (Head of the Department) :

Approved by the Civil Department Advisory committee meeting held on:

Approved by the (No.) IQAC meeting held on:

Approved by the (No.) Governing Council meeting conducted on:

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THAMIRABHARANI ENGINEERING COLLEGE

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ADVANCED LEARNER COURSE TEC ECAL007- PROTEUS DESIGN SUITE SOFTWARE INDEX

S. No.	Particulars	Page No.
1	Circular	4
2	Syllabus	5
3	Lesson Plan	6
4	Advance learner name list	7
5	Attendance Sheet	7
6	Photos	9
7	Assessment	10
8	Feedback	26
9	Report	30

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CIRCULAR

Ref:TEC/ECE/2020-21/EVEN/ALC/01

Date: 01.02.2021

In order to make the student industry ready engineers and to provide advanced quality training to the advanced learners of second, third & final year of Electronics & Communication Engineering department, the course on "TECECAL007- PROTEUS DESIGN SUITE SOFTWARE" by Mr. S. R. Sam kingsley, AP/ECE is being offered to enhance employability of the students, technical skills and make them more competitive. Course commences from 05.02.2021 to 03.03.2021. Students are instructed to make use of the opportunity. Advanced learners of second, third & final year of Electronics & Communication Engineering are eligible for this course.

Course Instructor

HoD/ECE

To be read in

S. No	Class	Sign
1	II ECE	Genma
2	III ECE	Swell
3	IV ECE	But

THAMIRABHARANI ENGINEERING COLLEGE
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ADVANCED LEARNER COURSE TECECAL007- PROTEUS DESIGN SUITE SOFTWARE

OBJECTIVE

To make the students be familiar with a printed circuit board design software tool for electronic automation.

SYLLABUS

INTRODUCTION

Creating a New Project - Panning - Visual Aids to Design - Display Options - Design Overview - General Description - Circuit Description

PCB LAYOUT

Overview of the Layout Editor - The Main Window - Visual Aids to Design - Display Options - Graphics Mode - Auto-Pan Animation - Highlight Animation The Board Edge - Layer Stack up and Drill Spans - Work Area-Placing Components and the Rats nest - Mounting Holes and Pad Styles

DESIGN & ROUTING

Design Rules - Placing a Route Manually - Panning and Zooming - Placing Anchors - Making Connections - Editing a Route - Layer Pairs and Manual Routing - Basic Auto-Routing - Length Matching Routes - The Selection Filter - Advanced Auto-Routing - Annotation - Schematic to PCB - PCB to Schematic

OUTCOME

On completion of this course the students will have the confidence to design various electronic printed circuits boards in automation.

THEORY: 30 PERIODS

ASSESSMENT: 2 PERIODS

TOTAL: 32 PERIODS

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ADVANCED LEARNER COURSE

TECECAL007- PROTEUS DESIGN SUITE SOFTWARE Lesson Plan & Schedule

S.NO	NO DATE TOPIC			
1.	1. 05.02.2021 Creating a New Project, Panning & Visual Aids to Design			
2.	06.02.2021	Design Overview, General Description, Circuit Description	3	
3.	08.02.2021	Overview of the Layout Editor, The Main Window	2	
4.	10.02.2021	Visual Aids to Design, Display Options, Graphics Mode		
5.	11.02.2021	Auto-Pan Animation, Highlight Animation The Board Edge Stack up and Drill Spans	3	
6.	13.02.2021	Work Area-Placing Components and the Rats nest - Mounting Holes and Pad Styles	3	
7.	15.02.2021	Design Rules - Placing a Route Manually	2	
8.	16.02.2021	Panning and Zooming - Placing Anchors - Making Connections	3	
9.	20.02.2021	Editing a Route - Layer Pairs and Manual Routing	3	
10.	23.02.2021	Basic Auto-Routing	2	
11.	25.02.2021	Length Matching Routes	2	
12.	27.02.2021	The Selection Filter - Advanced Auto-Routing, Annotation - Schematic to PCB - PCB to Schematic	3	
13.	03.03.2021	Assessment	1	
		Total Hours	30	

Course Instructor

Bento HoD/ECE

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ADVANCED LEARNER COURSE

TECECAL007- PROTEUS DESIGN SUITE SOFTWARE ATTENDANCE SHEET

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S.	Roll No.	Student Name	а	a	D a y	a y	a y	D a y	D a y	D a y	D a y	a y	a	D a y	a y	n.
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2	953119106003	Johnson S	1	,	1	,	1	,	7	1	1	1	/	1	1	Jolo
3	953119106006	Kiruba Esther K	1	1	,	/,	,	1	1	1	/	/	/	/	/	S. Howar
4	953119106017	Parameshwari M	1	1	1	1	1)	1)	1	-/-	1))	K. Kunda Esta
5	953119106018	Parvath ý Priya M	1	1	1	1	1	1)	1	1)	1	1		H. Pawath
6	953119106024	Raja Lakshmi S	1)	1	1)	1^)	1	,	,	1	,	/	1
7	953119106029	Sam Willbert S))	,	1	,	-/-	7)	,	1	/	/		& Raplaks
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17	953118106009	Mamtha M	1	1	1	1	,	,	1	1	,	/	/	,	1	Martha M
18	953118106010	Maruthappan M	1	1	1	,	1	1	1	,	1	/	1	,	/	Wester
19	953118106012	Nagalakshmi M	1	,	1	1)	15	1	1	1	/	,	1	/	14
20	953118106017	Sivaranjani M	1	1	1	10	RX	3/	1	/)	/	1	1	1	M. aigh.

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26	953117106015	SankaraGomath i M	1	1)	,	1	,	,)	,	1	1	,	,	Sunke
27	953117106018	Thinishya S	1	7))	,	,	,			/	,	/	/	
28	953117106301	Rajathi C	1	,)	,	1	1	/	/	/])	1)	Thirisiya 90



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Photos





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ADVANCED LEARNER COURSE TECECAL007- PROTEUS DESIGN SUITE SOFTWARE ASSESSMENT

COURSE CODE & NAME	•		
DEPARTMENT	:		
NAME OF THE STUDENT	:		
REG. NO.	.:	ACADEMIC	VEAD .
YEAR	:	SEM	ILAK .
			Total Marks: 50
Select the answer that is true a. are unique to each project	Part- A (10*1= 10) e: Mechanical layers		
b. are only declared in the PC	D aditar day		
c. follow an IPC standard	b editor during layout		
A STATE OF THE PARTY OF THE PAR			
2. The use of 3D component	print libraries for courtyard	s and assembly	files
The use of 3D component ma. Electrical clearance	lodels in the PCB layout can as	ssist with	
b. Component clearance			20 w
c. All of the above			
d. None of the above			
3. True or False – The solder n	nask has an impact on the trace	e impedance.	
a. True			
b. False			
 4. Proteus works by applying eit schematic. a) hex file b) debug file c) none of above d) Both the above 		_ to the microcon	troller part on the
5. PCBs should be fabricated with a. Odd Number ofb. Even Number of	th layers.		
c. Any Number of Which of the following is not set			wakiji)
6. Which of the following is not tall for each layer?	ken into consideration when calci	ulating the charact	eristic impedance
a. Trace width		ST.	IPAL
	THAN	MRATHARANI ENG	INEERING COLLEGE

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- b. Trace height
- c. Trace length
- d. Distance of the trace to a plane
- 7. The declaration of Vias-In-Pads is determined in the
 - a. Assembly Notes
 - b. Fabrication Notes
 - c. Fabrication Files
 - d. Via stack up
- 8. Select the answer that is true: Mechanical layers
 - a. are unique to each project
 - b. are only declared in the PCB editor during layout
 - c. follow an IPC standard
 - d. should be used in the footprint libraries for courtyards and assembly files
- 9. The use of 3D component models in the PCB layout can assist with
 - a. Electrical clearance
 - b. Component clearance
 - c. All of the above
 - d. None of the above
- 10. Silk Screens
 - a. Are not required for every component
 - b. Are highly recommended for prototype boards
 - c. Are not necessary for production boards
 - d. All of the above

Part- B (20*2=40)

- 11. The solder paste files are generally produced
 - a. In the assembly file
 - b. In the fabrication files
 - c. Manually drawn
 - d. As part of the bill of materials

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- 12. When is the earliest time one should communicate the bill of materials:
 - a. After fabrication has been started
 - b. After the boards have been fabricated
 - c. When the schematics are completed
 - d. After the layout is complete
- 13. What is the best method to provide a unique number for each component in the library?
 - a. Use the manufacturer's part number
 - b. Use the vendor's part number
 - c. Use a part number that is assign by the company you work for
 - d. Use a part number that you make up as you go
- 14. During post assembly testing, it was found that a latch on one of the connectors cannot be fully extended due to other components located nearby. What would have prevented this situation from occurring?
 - a. The use of a 3D component
 - b. The use of a 3D component and component clearance rule
 - c. The use of a courtyard
 - d. The use of a courtyard and a component clearance rule
- 15. Though schematic tools do have to use a grid for pin connectivity, in theory, the grid used in a schematic is
 - a. In metric (mm)
 - b. In imperial (mils)
 - c. Both A and B interchangeably
 - d. Dimensionless
- 16. The grid used in a PCB layout tool should be
 - a. In metric (mm)
 - b. In imperial (mils)
 - c. Both A and B interchangeably

an)

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- d. Either A or B
- 17. The biggest factor when it comes to impedance is
 - a. Clock speed of the board crystal
 - b. The integrity of the signal from the output buffer of the sending component
 - c. The voltage level
 - d. The physical aspects of the board
- 18. True or False: Microvias are the same as 1 layer blind or buried vias
 - a. True
 - b. False
- 19. Which of the following drill document(s) must be provided to the fabricator to program their drilling equipment?
 - a. Drill Plot
 - b. Drill Drawing
 - c. NC Drill file
 - d. All of the above
- 20. Which type of PCB requires minimum soldering on the component side in order to avoid replacement oriented difficulties?
 - a. Single-sided PCB
 - b. Double-sided PCB
 - c. Both a and b
 - d. None of the above

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ADVANCED LEARNER COURSE TECECAL007- PROTEUS DESIGN SUITE SOFTWARE

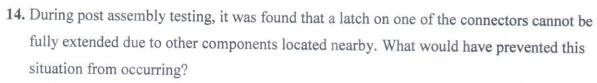
	ASSESSMENT	
COURSE CODE & NAME	: TECALOOT	
DEPARTMENT	: ECE	
NAME OF THE STUDENT	: Rajathi	
REG. NO.	:953117106301	ACADEMIC YEAR: 2020 - 2)
YEAR	: 10	SEM : 8
		Total Marks: 50
1 Select the angiver that is topic	Part- A (10*1= 10)	
1. Select the answer that is true	: Mechanical layers	1 1/60/
a. are unique to each project		(21)
b. are only declared in the PCI	B editor during layout	
c. follow an IPC standard		
d. should be used in the footpr		
2. The use of 3D component m	odels in the PCB layout can as	ssist with
a. Electrical clearance		
b. Component clearance	^	
c. All of the above		
d. None of the above		
3. True or False – The solder n	nask has an impact on the trace	e impedance.
a/True	•	
b. False		
 Proteus works by applying eit the schematic. 	her a or	to the microcontroller part on
a) hex fileb) debug file	<i>*</i>	
c) none of above		
d) Both the above		
5. PCBs should be fabricated with a. Odd Number of	ith layers.	
b. Even Number of		
c. Any Number of6. Which of the following is not ta	ken into consideration when calc	ulating the characteristic
impedance for each layer?		die onaracteristic
a. Trace width		
		M
	Tita	PRINCIPAL

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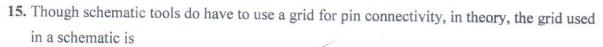
- 12. When is the earliest time one should communicate the bill of materials:
 - a. After fabrication has been started
 - b. After the boards have been fabricated
 - c. When the schematics are completed
 - d. After the layout is complete



- a. Use the manufacturer's part number
- b. Use the vendor's part number
- C. Use a part number that is assign by the company you work for
- d. Use a part number that you make up as you go



- . The use of a 3D component
- b. The use of a 3D component and component clearance rule
- c. The use of a courtyard
- d. The use of a courtyard and a component clearance rule



- a. In metric (mm)
- b. In imperial (mils)
- c. Both A and B interchangeably
- d. Dimensionless

16. The grid used in a PCB layout tool should be

- a. In metric (mm)
- b. In imperial (mils)
- c. Both A and B interchangeably

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ADVANCED LEARNER COURSE TECECAL007- PROTEUS DESIGN SUITE SOFTWARE ASSESSMENT

COURSE CODE & NAME	: TECECALOGT	
DEPARTMENT	: ECE	
NAME OF THE STUDENT	: Subitha.	
REG. NO.	:9153/19106039	ACADEMIC YEAR : 2020 - 2
YEAR	: 77	SEM : Ath
		Total Marks: 50
 Select the answer that is true a. are unique to each project 	Part- A (10*1= 10) e: Mechanical layers	(12/
b. are only declared in the PC	B editor during layout	(X/SD)
c. follow an IPC standard	o taker daring layout	
d. should be used in the footpu	rint libraries for courtyards and	d assembly files
2. The use of 3D component m	odels in the PCB layout can as	ssist with
a. Electrical clearance		11101
b. Component clearance	r	
All of the above	\angle	
d. None of the above		
3. True or False – The solder n	nask has an impact on the trac	a impodence
a. True	music has an impact on the trac	e impedance.
b. False		
	her a or	_ to the microcontroller part on
a) hex file b) debug file c) none of above d) Both the above	L	
5. PCBs should be fabricated w	ithlayers.	- to the state was
a. Odd Number of b. Even Number of		
c. Any Number of		
6. Which of the following is not ta	ken into consideration when calc	culating the characteristic
impedance for each layer?		
a. Trace width		y), ,,
		0)

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- 17. The biggest factor when it comes to impedance is
 - a. Clock speed of the board crystal
 - b. The integrity of the signal from the output buffer of the sending component
 - c. The voltage level
 - d. The physical aspects of the board
- 18. True or False: Microvias are the same as 1 layer blind or buried vias
 - a. True

b. False

- 19. Which of the following drill document(s) must be provided to the fabricator to program their drilling equipment?
 - a. Drill Plot
 - b. Drill Drawing

. of NC Drill file

- d. All of the above
- **20.** Which type of PCB requires minimum soldering on the component side in order to avoid replacement oriented difficulties?
 - a. Single-sided PCB
 - b. Double-sided PCB
 - c. Both a and b
 - d. None of the above

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ADVANCED LEARNER COURSE TECECAL007- PROTEUS DESIGN SUITE SOFTWARE ASSESSMENT

COURSE CODE & NAME	: TECECALOGT		
DEPARTMENT	: ELECTRONICS	AND COMMUNIC	ATTON ENGINEERING
NAME OF THE STUDENT	: SANKARA GOM		
REG. NO.	: 953117106015		C YEAR : 2021
YEAR	: 1	SEM	: 8 Total Marks: 50
 Select the answer that is true a. are unique to each project b. are only declared in the PCF c. follow an IPC standard d. should be used in the footpr The use of 3D component me a. Electrical clearance b. Component clearance c. All of the above d. None of the above True or False – The solder me a. True b. False 	B editor during layout int libraries for courtyar odels in the PCB layout	ds and assembly file can assist with	50
 4. Proteus works by applying eith the schematic. a) hex file b) debug file c) none of above 5. PCBs should be fabricated wire. a. Odd Number of b. Even Number of c. Any Number of 6. Which of the following is not take impedance for each layer? a. Trace width 	thlayers.		

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Chidambaranagar - Vepemkulam Road, Thatchanallur, Tirunelyeli - 627 358.

- 17. The biggest factor when it comes to impedance is
 - a. Clock speed of the board crystal
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 - c. The voltage level
 - d. The physical aspects of the board
- 18. True or False: Microvias are the same as 1 layer blind or buried vias
 - a. True
 - b. False
- 19. Which of the following drill document(s) must be provided to the fabricator to program their drilling equipment?
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 - b. Drill Drawing
 - c. NC Drill file
 - d. All of the above
- 20. Which type of PCB requires minimum soldering on the component side in order to avoid replacement oriented difficulties?
 - a. Single-sided PCB
 - b. Double-sided PCB
 - c. Both a and b
 - d. None of the above

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ADVANCED LEARNERS COURSE TECECAL007- PROTEUS DESIGN SUITE SOFTWARE FEEDBACK FORM

COURSE CODE & NAME

: TECECALOOT

DEPARTMENT

: ELECTRONICS AND COMMUNICATION ENGINEERING

NAME OF THE STUDENT

: DIVYA . A

REGISTER NUMBER

: 953117106003

ACADEMIC YEAR: 2020 - 2021

YEAR

1

SEM

: 8

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you? Yes / No

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree S. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

4. High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 3. Strongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The course assessment conducted was adequate

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 3. Strongly agree

E. Were objectives of the course realized? Yes / No

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HAMIRASUARANI ENGINEERING COLLEGE OF THE STUDENT

Chathirampudukulam Village, Chidambarana ter - Vopemkulam Baad,

The standing annelvell - 627 .



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ADVANCED LEARNERS COURSE TECECAL007- PROTEUS DESIGN SUITE SOFTWARE FEEDBACK FORM

COURSE CODE & NAME

TECECALOOT

DEPARTMENT

ECF

NAME OF THE STUDENT

S. Rajalakshmi

REGISTER NUMBER

953119106024

ACADEMIC YEAR : 2020-2021

YEAR

SEM

110

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you? \(\nsigma_{\text{es}} / \text{No}\)

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

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THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

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C. The course assessment conducted was adequate

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes / No

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THAMIRABHARANI ENGINEERING STATURE OF THE STUDENT

Chathirampudukulam Village, Chida abaranggar - Vepomkulam Road.

Thuismanathur, imunelveli - 627 355.



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ADVANCED LEARNERS COURSE TECECAL007- PROTEUS DESIGN SUITE SOFTWARE FEEDBACK FORM

COURSE CODE & NAME

: TECECAL 007

DEPARTMENT

: Electronics and communication Engineering

NAME OF THE STUDENT

: Ambika . A

REGISTER NUMBER

: 953118106 0021

ACADEMIC YEAR 2020_2021

YEAR

: 111

SEM

: 6

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you? Yes / No

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

4. High

Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

- A. The lectures were clear and easy to understand
 - 1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree
- B. The teaching aids were effectively used
 - 1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 6. Strongly agree
- C. The course assessment conducted was adequate
 - 1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree
- D. The instructors encouraged interaction and were helpful
 - 1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree
- E. Were objectives of the course realized? Yes / No

THAMIRABHARANI ENGINEERING COLLEGSIGNATURE OF THE STUDENT

Chathirampuduku' im Village, Chidambarangar Per Pulam Road.

Thatchanallur, Inc.

627 358.



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ADVANCED LEARNERS COURSE ASSESSMENT

TEC ECAL007- PROTEUS DESIGN SUITE SOFTWARE

S. NO.	REGISTER NO.	STUDENT NAME	ASSESSMENT (50)	TOTAL (100)
1	953119106001	Daniel Durai J	35	25
2	953119106003	Johnson S	39	89
3	953119106006	Kiruba Esther K	40	90
4	953119106017	Parameshwari M	45	95
5	953119106018	Parvathy Priya M	38	88
6	953119106024	Raja Lakshmi S	40	90
7	953119106029	Sam Willbert S	39	29
8	953119106035	Sindhu Abirami S	44	94
9	953119106037	Siva Sankari	42	74
10	953119106039	Subitha P	42	92
11	953119106042	Vaishanavi V	40	96
12	953119106303	Maharajan	38	81
13	953119106305	Muthuraj	36	86
14	953118106002	Ambika A	40	90
15	953118106003	Dharani M	34	84
16	953118106007	Madathi M	36	86
17	953118106009	Mamtha M	36	01
18	953118106010	Maruthappan M	39	86 89
19	953118106012	Nagalakshmi M	43	93
20	953118106017	Sivaranjani M	45	90
21	953118106019	Srirama Selvan P	36	
22	953117106002	Dhana Lakshmi M	43	93
23	953117106003	Divya A		914
24	953117106010	Nuzrath Banu H	40	90
25	953117106013	Piramma Sakthi A	39	94
26	953117106015	Sankara Gomathi M	43	93
27	953117106018	Thinishya S	38	
28	953117106301	Rajathi C	41	91

COURSE INSTRUCTOR

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Charles Vepont 1.

Thatchart Tirune Ivali



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		REPORT
1	Program name	TECECAL007- PROTEUS DESIGN SUITE SOFTWARE
2	Date of program duration	05.02.2021 to 03.03.2021
3	Resource person	Mr. S. R. SAM KINGSLEY, AP/ECE
4	Participants	28
5	Objective of program	The main objective of this program is to inculcate the advanced knowledge to the advanced learning students of Electronics & Communication Engineering department and to make the students be familiar with a printed circuit board design software tool for electronic automation.
6	Program description	In this course the following key design elements are explained and their designing methodology is explained. The Proteus Design Suite is an embedded system development and simulation software developed by Lab center. The software is used mainly by electronic design engineers and technicians to create schematics and electronic prints for manufacturing printed circuit boards.
7	Outcome of this program	On completion of this course the students will have the confidence to design various Printed Circuit Boards in the auto routing manner.

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Thatchanglus, Tirunelveli 358.

Thamirabharani Engineering College

Department of Electrical and Electronics Engineering

List of Courses

Special Programmes for Advanced Learners (Academic Year; 2020-2021)

ir Staff In charge	Mr. M. Marikannan, AP/ EEE	Mrs. S. Nazrin Salma, AP/ EEE	Mr. E. Subramanian AP/ EEE	Mr. R. Jeeva, AP/ CSE	Mrs. M. Suganthi, AP / CSE	Mrs. P. Saravanaselvi, AP/ ECE
Year	(7		2	•	4
Semester	3	4	5	9	7	8
Course	Core	Core	Inter-Disciplinary	Inter-Disciplinary	Inter-Disciplinary	Inter-Disciplinary
Name of the Course	8085 in Electrical Industrial Applications	Programming Logic Control	Scilab Integrated Development Environment	Web Development using ASP.NET	Android Development using Java	MATLAB and its Applications in Engineering
S.No	1	2	3	4	. 5	9

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ADVANCED LEARNER COURSE

TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS

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TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS

Course curriculum prepared by

: Mr. M. Marikannan, AP /EEE

Approved by (Head of the Department) :

Approved by the Civil Department Advisory committee meeting held on:

Approved by the (No.) IQAC meeting held on:

Approved by the (No.) Governing Council meeting conducted on:

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ADVANCED LEARNER COURSE TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS INDEX

S. No.	Particulars	Page No.		
1	Circular			
2	Syllabus			
3	Lesson Plan	-		
4	Course Evaluation			
5	Advance learner name list			
6	Attendance Sheet			
7	Photos			
8	Assessment			
9	Assessment Marks			
10	Feedback			
11	Report			
12	Course Summary			

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Thatchanallur, Tirunelveli 627 358, Tamil Nadu.

CIRCULAR

Ref:TEC/EEE/2021-22/ODD/ALC/003

Date: 11.10.2021

In order to make the student industry ready engineers and to provide advanced quality training to the advanced learners of second year of Electrical and Electronics Engineering department, the course on "TECAL003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS" by Mr. M. Marikannan, AP /EEE is being offered to enhance employability of the students, technical skills and make them more competitive. Course commences from 17.01.2022 to 21.01.2022. Students are instructed to make use of the opportunity. Advanced learners of second year of Electrical and Electronics Engineering department are eligible for this course.

Course Instructor

HoD/EEE

To be read in

S. No	Class	Sign
1	II EEE	Sax.

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ADVANCED LEARNER COURSE TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS

OBJECTIVE

- To understand the basics of 8085 Microprocessors and its applications.
- To explain the system architecture of 8085 Microprocessors.
- To explain the features of 8085 Microprocessors
- To understand the concepts of 8085 Microprocessors in industrial Applications.

SYLLABUS

UNIT I Introduction to Microprocessor

Evolution of Microprocessor, Organization of Microprocessors (Preliminary concepts), basic concepts of programming of microprocessors. Review of concepts.

UNIT II Logic Function

Data word representation. Basic elements of control systems 8085A processor architecture terminology such as CPU, memory and address, ALU, assembler data registers.

UNIT III Organization of Microprocessors

Introduction to organization of INTEL 8085-Data and Address buses, fetch cycle, write cycle, state, bus, interrupts. Micro Controllers. Difference between microprocessor and micro controllers.

UNIT IV Central Processing Unit of Microprocessors

Introduction, timing and control unit basic concepts, Instruction and data flow, system timing, examples of INTEL 8085 organization.

UNIT V Programming of 8085 Microprocessor

Instruction -format and addressing modes – Assembly language format – Data transfer, data manipulation& control instructions – Programming.

OUTCOME

- Understand the system architecture of 8085 Microprocessors.
- Understand different functional blocks of 8085 Microprocessors.
- understand the concepts of 8085 Microprocessors in industrial Applications.

Analyse the features of 8085 Microprocessors.

THEORY: 30 PERIODS

ASSESSMENT: 2 PERIODS

TOTAL: 32 PERIODS

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ADVANCED LEARNER COURSE

TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS

Lesson Plan & Schedule

S.NO	DATE	TOPIC	No. of Hours
1.	17-01-2022	Evolution of Microprocessor.	1
2.	17-01-2022	Organization of Microprocessors (Preliminary concepts)	1
3.	17-01-2022	Basic concepts of programming of microprocessors, Review of concepts	2
4.	17-01-2022	Data word representation.	1
5.	17-01-2022	Basic elements of control systems 8085A processor architecture terminology such as CPU	2
6.	17-01-2022	Memory and address	1
7.	19-01-2022	ALU, assembler data registers	1
8.	19-01-2022	Introduction to organization of INTEL 8085.	. 2
9.	19-01-2022	Data and Address buses	1
10.	19-01-2022	Fetch cycle, write cycle, state	2
11.	19-01-2022	Bus, interrupts	1
12.	19-01-2022	Microcontrollers. Difference between microprocessor and micro controllers.	1
13.	20-01-2022	Introduction, timing and control unit basic concepts.	2
14.	20-01-2022	Instruction and data flow	2
15.	20-01-2022	System timing	1
16.	20-01-2022	Examples of INTEL 8085 organization.	1
17.	20-01-2022	Instruction.	1
18.	20-01-2022	Format and addressing modes	1

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19.	21-01-2022	Assembly language format	2
20.	21-01-2022	Data transfer, data manipulation& control instructions	2
21.	21-01-2022	Programming.	2
22.	21-01-2022	ASSESSMENT TEST	2
			32

Course Instructor

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ADVANCED LEARNER COURSE TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS

The assessment of the students shall be based on the following parameters.

Evaluation Parameter	Weightage (in %)
Attendance	50
Assessment	50

The minimum passing requirement for certificate is 60%.

M)

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ADVANCED LEARNER COURSE TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS NAME LIST

S. NO.	REGISTER NO.	STUDENT NAME	SIGNATURE
1	953120105005	ANUSIAH R	
2	953120105009	ESSAKI PRIYA M	
3	953120105016	MADHUMITHA M	
4	953120105017	MANIKANDAN L	
5 ·	953120105018	MANJULADEVI M	
6	953120105021	PETCHIAMMAL A	
7	953120105025	SHENBAGA ARASI S	
8	953120105026	THANGARAM V	A.O.A
9	953120105027	THANGESHWARI R	
10	953120105031	VISHAPREETHI A	
11	953120105302	RAJNARAYANAN	
12	953120105301	PONARAVIND KIRUBAKARAN	
13	953120105303	SELVAGANESH	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING THAMIRABHARANI ENGINEERING COLLEGE

ADVANCED LEARNERS COURSE ATTENDENCE

NO.OF PERIODS

ABSENT

COURSE INSTRUCTOR

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	SELVAGANESH	PONARAVIND KIRUBAKARAN	RAJNARAYANAN	VISHAPREETHI A	THANGESHWARI R	THANGARAM V	SHENBAGA ARASI S	PETCHIAMMAL A	MANJULADEVI M	MANIKANDAN L	MADHUMITHA M	ESSAKI PRIYA M	ANUSIAH R	Name of the Soutest	21-2022	
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Photos

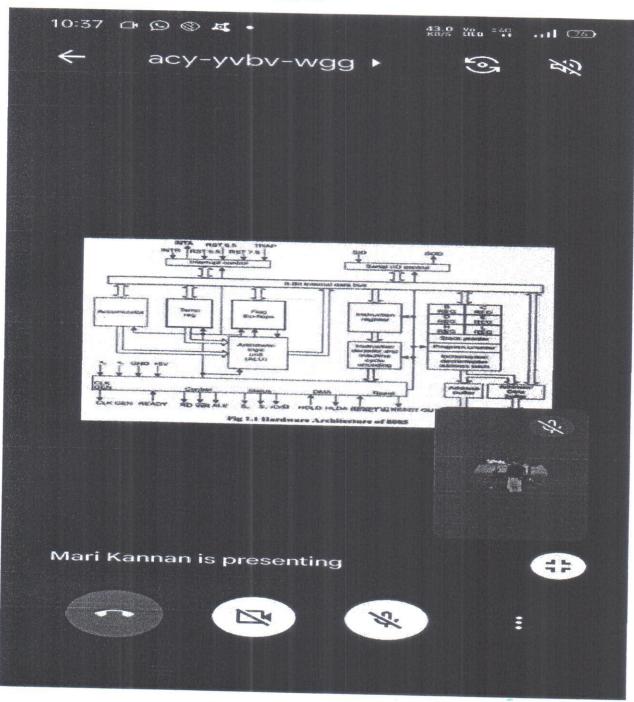


Fig. 1. Content delivery

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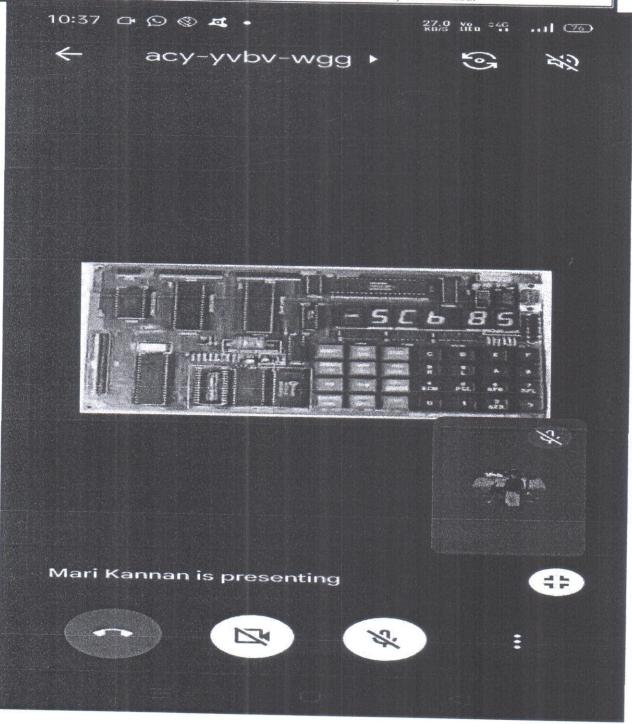


Fig. 2. Content delivery

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a) register indirect addressing mode

b) direct addressing mode

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ADVANCED LEARNER COURSE

1EC EEALC003 - 8085 [ASSESSMENT	JSTRIAL APPLIC	CATIONS
COURSE CODE & NAME	ASSESSIVIENT:		
DEPARTMENT			
NAME OF THE STUDENT			
REG. NO.	•	8	
	:	ACADEM	IIC YEAR:
YEAR	:	SEM	: Total Marks: 50
 What is Microprocessor? a) A multipurpose PLD that as b) A multipurpose PLD that acc c) A multipurpose PLD that acc d) A multipurpose PLD that acc 	epts an integer as input epts whole numbers as in	put	
 Which of the following is correct a) Intel's first x86 process b) Motrola's first x86 process c) STMICROELECTRON d) NanoXplore x86 process 	sor cessor NICS's first x86 processor		
 3. Which of the following is a type a) CISC b) RISC c) EPIC d) All of the above 	of microprocessor?		
4. The microprocessor of a compute	r can operate on any infor	mation if it is presen	t in
only. a) Program Counter b) Flag c) Main Memory d) Secondary Memory		, , , , , , , , , , , , , , , , , , ,	
5. Which of the following technologa) NMOSb) HMOSc) PMOSd) TTL	y was used by Intel to des	ign its first 8-bit mic	roprocessor?
6. Which of the following addressing a) register indirect addressing n	g method does the instruct	ion, MOV AX BX1	represent?

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- c) register addressing mode
- d) register relative addressing mode
- 7. What is the word length of an 8-bit microprocessor?
 - a) 8-bits 64 bits
 - b) 4-bits 32 bits
 - c) 8-bits 16 bits
 - d) 8-bits 32 bits
- 8. In 8-bit microprocessor, how many opcodes are present?

 - b) 278
 - c) 250
 - d) 256
- 9. Which of the following is not true about the address bus?
 - a) It consists of control PIN 21 to 28
 - b) It is a bidirectional bus
 - c) It is 16 bits in length
 - d) Lower address bus lines (AD_0-AD_7) are called "Line number"
- 10. Which of the following is true about microprocessors?
 - a) It has an internal memory
 - b) It has interfacing circuits
 - c) It contains ALU, CU, and registers
 - d) It uses Harvard architecture

Part- B (20*2= 40)

- 11. Which of the following is the correct sequence of operations in a microprocessor?
- a) Opcode fetch, memory read, memory write, I/O read, I/O write
- b) Opcode fetch, memory write, memory read, I/O read, I/O write
- c) I/O read, opcode fetch, memory read, memory write, I/O write
- d) I/O read, opcode fetch, memory write, memory read, I/O write
- 12. The directive instructs the assembler to begin memory allocation for a segment/block/code from the stated address.
- a) GROUP
- b) OFFSET
- c) ORG
- d) LABEL
- 13. Which of the following is not a microprocessor?
- a) Z8000
- b) Motorola 6809
- c) Zilog Z8

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d) PIC1x

- 14. Which of the following is not a property of TRAP interrupt in microprocessor?
- a) It is a non-maskable interrupt
- b) It is of highest priority
- c) It uses edge-triggered signal
- d) It is a vectored interrupt
- 15. Which of the following is a property of RST 7.5 interrupt?
- a) It is a non-maskable interrupt
- b) It has 3rd highest priority
- c) It uses level-triggered signal
- d) Its vectored address is 0034H
- 16. Which of the following flag is used to mask INTR interrupt?
- a) zero flag
- b) auxiliary carry flag flag
- c) interrupt flag
- d) sign flag
- 17. Which of the following is a special-purpose register of microprocessor?
- a) Program counter
- b) Instruction register
- c) Accumulator
- d) Temporary register
- 18. Which of the following circuit is used as a special signal to demultiplex the address bus and
- a) Priority Encoder
- b) Decoder
- c) Address Latch Enable
- d) Demultiplexer
- 19. How many flip-flops are there in a flag register of 8085 microprocessor?
- a) 4
- b) 5
- c) 7
- d) 10
- 20. Which of the following flag condition is used for BCD arithmetic operations in microprocessor?
- b) Auxiliary carry flag
- c) Parity flag
- d) Zero flag
- 21. Whenever a non-maskable interrupt occurs in 8085 microprocessors, which of the following data line contains the data?
- a) 2C H

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- b) 3C H
- c) 36 H
- d) 24 H
- 22. What does a microprocessor understand after decoding opcode?
- a) Perform ALU operation
- b) Go to memory
- c) Length of the instruction and number of operations
- d) Go to the output device
- 23. How many address lines are present in 8086 microprocessors?
- a) 16
- b) 20
- c) 32
- d) 40
- 24. Which of the following is not a status flag in microprocessor?
- a) Overflow flag
- b) Direction flag
- c) Interrupt flag
- d) Index flag
- 25. Which of the following is not a condition flag?
- a) Trap flag
- b) Auxiliary carry flag
- c) Parity flag
- d) Zero flag
- 26. Which of the following register is not used in opcode fetch operations?
- a) Program counter
- b) Memory address register
- c) Memory data register
- d) Flag register
- 27. A memory connected to a microprocessor has 20 address lines and 16 data lines. What will be the memory capacity?
- a) 8 KB
- b) 2 MB
- c) 16 MB
- d) 64 KB
- 28. What is the word length of the Pentium-II microprocessor?
- a) 8-bit
- b) 32-bit
- c) 64-bit
- d) 16-bit

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- 29. Which of the following is not true about 8085 microprocessors?
- a) It is an 8-bit microprocessor
- b) It is a 40 pin DIP chip
- c) It is manufactured using PMOS technology
- d) It has 16 address lines
- 30. Which of the following is a non-vectored input?
- a) TRAP
- b) RST-7.5
- c) RST-6.5
- d) INTR

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ADVANCED LEARNER COURSE

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	AND A CONTRACTOR OF THE CONTRA	
1. What is Microprocessor? *		1 point
a) A multipurpose PLD that accepts binary data as input		
b) A multipurpose PLD that accepts an integer as input		
c) A multipurpose PLD that accepts whole numbers as input		
d) A multipurpose PLD that accepts prime numbers as input		
	在2000年,以前,他们的1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1	- Ballet Baharing - Euwaregel, W. N. 1964, S. S. Hills bed Bah - 1883 - J. Sansapalin, Auro, L. Galdering, J. Jacoby, A.
2. Which of the following is correct about 8086 microprocessors? *		1 point
a) Intel's first x86 processor		
b) Motrola's first x86 processor		
c) STMICROELECTRONICS's first x86 processor		
d) NanoXplore x86 processor		
3. Which of the following is a type of microprocessor? *		1 point
O a) CISC		
O b) RISC		
O c) EPIC		
(a) All of the above		Total Controlled The product of the
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4 . The microprocessor of a computer can operate on any information if it is present in only. *	1 point
a) Program Counter	
O b) Flag	
c) Main Memory	
(d) Secondary Memory	
5. Which of the following technology was used by Intel to design its first 8-bit microprocessor? *	1 point
(a) NMOS	
O b) HMOS	
O c) PMOS	
(a) TTL	
6. Which of the following addressing method does the instruction, MOV AX,[BX] represent? *	1 point
a) register indirect addressing mode	
(b) direct addressing mode	
C) register addressing mode	Annual March other species and a
d) register relative addressing mode	A definition on the design of the control of the co
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d) LABEL		eri ya Adda yena
c) ORG		representativa de la manda de la constanta de
O b) OFFSET		
a) GROUP		The second secon
12. The directive instructs the assembler to begin memor segment/block/code from the stated address. *	y allocation for a	2 points
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d) I/O read, opcode fetch, memory write, memory read, I/O write		
c) I/O read, opcode fetch, memory read, memory write, I/O write		
b) Opcode fetch, memory write, memory read, I/O read, I/O write		
a) Opcode fetch, memory read, memory write, I/O read, I/O write		
11. Which of the following is the correct sequence of operations i microprocessor? *	n a	2 points
20*2=20 Marks		THE COMMENT OF THE CO
PART-B		
	and a large 1 of the large in a control of the cont	nder i deut hällsde skolleder freiden ist hådet skilden et hvilden ster stelle
d) It uses Harvard architecture		
c) It contains ALU, CU, and registers		
b) It has interfacing circuits	ā	
a) It has an internal memory		
10. Which of the following is true about microprocessors?		1 point

13. Which of the following is not a microprocessor? *	2 points
(a) Z8000	
b) Motorola 6809	
C) Zilog Z8	
(a) PIC1x	
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14. Which of the following is not a property of TRAP interrupt in microprocessor? *	2 points
a) It is a non-maskable interrupt	
b) It is of highest priority	
c) It uses edge-triggered signal	
O d) It is a vectored interrupt	
15. Which of the following is a property of RST 7.5 interrupt? *	2 points
a) It is a non-maskable interrupt	
b) It has 3rd highest priority	
c) It uses level-triggered signal	
d) Its vectored address is 0034H	

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10.	Which of the following flag is used to mask INTR interrupt? *	2 points
0	a) zero flag	
0	b) auxiliary carry flag flag	
(1)	c) interrupt flag	
0	d) sign flag	
17. V	Which of the following is a special-purpose register of microprocessor? *	2 points
(1)	a) Program counter	
0	b) Instruction register	
0	c) Accumulator	
0	d) Temporary register	
18. W	hich of the following circuit is used as a special signal to demultiplex the ess bus and data bus? *	2 points
O 8) Priority Encoder	
) Priority Encoder) Decoder	
6		

m)

		Olivina di Americano
19. H	How many flip-flops are there in a flag register of 8085 microprocessor? *	2 points
0	a) 4	
	b) 5	
0	c) 7	
0	d) 10	
20. V	Which of the following flag condition is used for BCD arithmetic operations oprocessor? *	in 2 points
() a	a) Sign flag	
(a)	b) Auxiliary carry flag	
O 0	c) Parity flag	
O d	d) Zero flag	
21. Wh	henever a non-maskable interrupt occurs in 8085 microprocessors, which o	of 2 points
() a)) 2C H	and the same
() b)) 3C H	
() c)	36 H	
(a)	24 H	The second secon
CONTRACTOR STREET, SECURE	PRINCIPAL	Photocol CINA

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	22. What does a microprocessor understand after decoding opcode? *	2 points
	a) Perform ALU operation	
	b) Go to memory	
	c) Length of the instruction and number of operations	
	d) Go to the output device	
	23. How many address lines are present in 8086 microprocessors? *	2 points
)	O a) 16	
	(a) b) 20	
	O c) 32	
	O d) 40	
	24. Which of the following is not a status flag in microprocessor?	2 points
	a) Overflow flag	Metal-on trades are quality
Commission of the Commission o	(b) Direction flag	
	C) Interrupt flag	-
and the spirit constraints	(a) Index flag	thy committee control and a co
		committee and a superdispose and

The second of th		
25. Which of the following is not a condition flag? *	erzertestenden für eiligekrechtlichende	2 points
a) Trap flag		
b) Auxiliary carry flag		
C) Parity flag		
O d) Zero flag		
26 Which of the 5 H	2000年8月1日 - 1982年 - 1	
26. Which of the following register is not used in opcode fetch operations? *		2 points
a) Program counter		
b) Memory address register		
c) Memory data register		
d) Flag register		
	,*	
27. A memory connected to a microprocessor has 20 address lines and 16 data What will be the memory capacity? *	lines.	2 points
(a) 8 KB		
(a) b) 2 MB		
C) 16 MB		
O d) 64 KB	D .	The appear
2K	/	

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	28. What is the word length of the Pentium-II microprocessor? *	2 points
	(a) 8-bit (b) 32-bit	
	(a) 64-bit	
	(d) 16-bit	*
	29. Which of the following is not true about 8085 microprocessors? *	2 points
	a) It is an 8-bit microprocessor	
ne to me many or continue of disease	b) It is a 40 pin DIP chip c) It is manufactured using PMOS technology	
	d) It has 16 address lines	
	30. Which of the following is a non-vectored input? *	2 points
	O a) TRAP	2 points
	(b) RST-7.5	
****	O c) RST-6.5	The second secon
	(a) INTR	

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Thatchanallur, Tiruneivell - 627 358,

ADVANCED LEARNER COURSE

TEC EEALCOO1 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS

NAME OF THE STUDENT *				
Raj narayanan B				
		an en		e i bardin arre
5-010				
REGISTER NUMBER *				
953120105302		despt.		
EMAIL- ID *				
narayananraj32@gmail.com				
YEAR/ SEM *	The second secon		A Supplemental Control	
2/3				
PART-A				
*1=10 Marks				
, IV Mains				7.0

Chidambaranagar - Vepemkulam Read, Thatchanallur, Tirunelveli - 627 358,

1. What is Microprocessor? *	1 point
a) A multipurpose PLD that accepts binary data as input	
b) A multipurpose PLD that accepts an integer as input	
c) A multipurpose PLD that accepts whole numbers as input	
d) A multipurpose PLD that accepts prime numbers as input	
	Probabilities
2. Which of the following is correct about 8086 microprocessors? *	1 point
a) Intel's first x86 processor	
b) Motrola's first x86 processor	
c) STMICROELECTRONICS's first x86 processor	
d) NanoXplore x86 processor	
3. Which of the following is a type of microprocessor? *	1 point
O a) CISC	
O b) RISC	
O c) EPIC	
d) All of the above	Tange 1

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Chinampuranagar - Venemkulam Roan,
Thatchanallur, Tirunelven - 627 358,

in	The microprocessor of a computer can operate on any information if it is present only. *	1 point
	a) Program Counter	
C	b) Flag	
©	c) Main Memory	
C	d) Secondary Memory	
5. '	Vhich of the following technology was used by Intel to design its first 8-bit proprocessor? *	1 point
0	a) NMOS	
0	b) HMOS	
0	c) PMOS	
	d) TTL	
6. V	hich of the following addressing method does the instruction, MOV AX,[BX] esent? *	1 point
<!--</td--><td>a) register indirect addressing mode</td><td></td>	a) register indirect addressing mode	
0	b) direct addressing mode	
0	c) register addressing mode	
\bigcirc	d) register relative addressing mode	
49720		DISTRIBUTE STATES OF THE STATE

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7. What is the word length of an 8-bit microprocessor? *	1 point
a) 8-bits - 64 bits	
○ b) 4-bits - 32 bits	
O c) 8-bits - 16 bits	
() 8-bits - 32 bits	
8. In 8-bit microprocessor, how many opcodes are present? *	1 point
(a) 246	
O b) 278	en Maria (M) Maria (M)
O c) 250	
O d) 256	
9. Which of the following is not true about the address bus?	1 point
a) It consists of control PIN 21 to 28	
b) It is a bidirectional bus	
C) It is 16 bits in length	
d) Lower address bus lines (AD0 - AD7) are called "Line number"	

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10. Which of the following is true about microprocessors?	1 point
a) It has an internal memory	
b) It has interfacing circuits	
c) It contains ALU, CU, and registers	
d) It uses Harvard architecture	
PART-B	Park Angelon
20*2=20 Marks	
11. Which of the following is the correct sequence of operations in a microprocessor? *	2 points
a) Opcode fetch, memory read, memory write, I/O read, I/O write	
b) Opcode fetch, memory write, memory read, I/O read, I/O write	of the same
c) I/O read, opcode fetch, memory read, memory write, I/O write	
d) I/O read, opcode fetch, memory write, memory read, I/O write	
12. The directive instructs the assembler to begin memory allocation for a segment/block/code from the stated address. *	2 points
a) GROUP	
O b) OFFSET	
c) ORG	
O d) LABEL	

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13. Which of the following is not a microprocessor? *	2 points
a) Z8000	
O b) Motorola 6809	
C) Zilog Z8	
d) PIC1x	
14. Which of the following is not a property of TRAP interrupt in microprocessor? *	2 points
a) It is a non-maskable interrupt	
b) It is of highest priority	
c) It uses edge-triggered signal	
d) It is a vectored interrupt	
15. Which of the following is a property of RST 7.5 interrupt? *	2 points
a) It is a non-maskable interrupt	
b) It has 3rd highest priority	
c) It uses level-triggered signal	
d) Its vectored address is 0034H	

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10. Which of the following flag is used to mask INTR interrupt? *	2 points
a) zero flag	
b) auxiliary carry flag flag	
c) interrupt flag	
Od) sign flag	
17. Which of the following is a special-purpose register of microprocessor? *	2 points
a) Program counter	
b) Instruction register	
C) Accumulator	
d) Temporary register	
18. Which of the following circuit is used as a special signal to demultiplex the	
address bus and data bus? *	2 points
a) Priority Encoder	William Tolking
O b) Decoder	
c) Address Latch Enable	
O d) Demultiplexer	
	No. of the second second

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19. How many flip-flops	are there in a flag register of 8085 microprocessor? *	2 poin
() a) 4		
(a) b) 5		
() c) 7		
() d) 10		
20. Which of the followin microprocessor? *	ng flag condition is used for BCD arithmetic operations i	n 2 point
a) Sign flag		
b) Auxiliary carry flag		
C) Parity flag		
O d) Zero flag		
21. Whenever a non-maska the following data line con	able interrupt occurs in 8085 microprocessors, which of tains the data? *	2 points
() a) 2C H		
○ p) 3C H		
O c) 36 H		
(a) 24 H		
		Participant African

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22. What does a microprocessor understand after decoding opcode? *	2 points
a) Perform ALU operation	
O b) Go to memory	
c) Length of the instruction and number of operations	
d) Go to the output device	
23. How many address lines are present in 8086 microprocessors? *	2 points
O a) 16	
O b) 20	
O c) 32	
(a) d) 40	
24. Which of the following is not a status flag in microprocessor?	2 points
a) Overflow flag	en e
b) Direction flag	
C) Interrupt flag	
(a) Index flag	

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	25. Which of the following is not a condition flag? *	2 points
	(a) Trap flag	
	b) Auxiliary carry flag	
	c) Parity flag	
	() d) Zero flag	
	26. Which of the following register is not used in opcode fetch operations? *	2 points
	a) Program counter	
<	b) Memory address register	
() c) Memory data register	
(d) Flag register	
27 W	7. A memory connected to a microprocessor has 20 address lines and 16 data lines. /hat will be the memory capacity? *	2 points
Contract of the Contract of th) a) 8 KB	
0) b) 2 MB	
) c) 16 MB	
0	d) 64 KB	
		1970

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28. What is	the word length of the Pentium-II microprocessor? *	2 points
a) 8-bit		
(b) 32-b	it	
(i) 64-b	it en	
() d) 16-b	it	
29. Which	of the following is not true about 8085 microprocessors? *	2 points
a) It is	an 8-bit microprocessor	
) b) It is	a 40 pin DIP chip	
c) It is	manufactured using PMOS technology	
) d) It ha	s 16 address lines	
30. Which	of the following is a non-vectored input? *	2 points
a) TRAI		
(b) RST-		
(c) RST-		
(a) d) INTR		

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THAMIRABHARANI ENGINEERING COLLEGE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADVANCED LEARNERS COURSE

TECALC001-8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS STUDENTS ASSESSMENT

ACADAMIC YEAR: 2021-2022

SEMESTER: ODD

	TOTAL	7707-1		SEMESTER: ODD	
SI.No.	o. Reg. No.	Name of the Student	Out of 50	Out of 100	Total marks(100)
-	953120105005 ANUSIAH R	ANUSIAH R	44	88	88
2	953120105009	953120105009 ESSAKI PRIYA M	44	88	88
3	953120105016	953120105016 MADHUMITHA M	42	84	84
4	953120105017	953120105017 MANIKANDAN L	44	88	88
5	953120105018	953120105018 MANJULADEVI M	44	88	88
9	953120105021	953120105021 PETCHIAMMAL A	46	92	92
7	953120105025	953120105025 SHENBAGA ARASI S	44	88	88
00	953120105026	953120105026 THANGARAM V	44	88	88
6	953120105027	953120105027 THANGESHWARI R	42	84	84
10	953120105031	VISHAPREETHI A	44	88	88
11	953120105302	RAJNARAYANAN	45	06	06
12	953120105301	PONARAVIND KIRUBAKARAN	44	88	88
13	953120105303	953120105303 SELVAGANESH	43	86	86
			Section of the Contract of the		

COURSE INSTRUCTOR

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ADVANCED LEARNERS COURSE TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS

COURSE CODE & NAME

FEEDBACK FORM : TECALCOO3 - 8085 IN Sleeths cal Industrial Application

DEPARTMENT

FEE

NAME OF THE STUDENT

: Shenbaja arasi . S

REGISTER NUMBER

: 953120105025

ACADEMIC YEAR: 2021-2022

YEAR

SEM

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you?

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

4. High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5 Strongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The course assessment conducted was adequate

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes / No

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ADVANCED LEARNERS COURSE TEC EEALC001 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS FEEDBACK FORM

COURSE CODE & NAME

: TECALCOOB- 8085 in Sleubical Industrial

DEPARTMENT

NAME OF THE STUDENT

: M. Sccapiphya.

REGISTER NUMBER

: 953120105009 ACADEMIC YEAR:

YEAR

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you?

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

4. High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

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D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes / No

THAMIRABHARANI ENGINEERING COLLEGE

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		REPORT
1	Program name	TECALC003 - 8085 IN ELECTRICAL INDUSTRIAL APPLICATIONS
2	Date of program duration	17.01.2022 to 21.01.2022
3	Resource person	Mr. M. Marikannan, AP /EEE/ TEC
4	Participants	13
5	Objective of program	The main objective of this program is to inculcate the advanced knowledge to the advanced learning students of Electrical and Electronics Engineering department and to make the students be familiar to understand the basics of 8085 Microprocessors and its applications.
6	Program description	In this course the following key elements are explained system architecture of 8085 Microprocessor, different functional blocks of 8085 Microprocessors, concepts of 8085 Microprocessors in industrial Applications and features of Microprocessors.
7	Outcome of this program	On completion of this course the students will have understand the concepts of 8085 Microprocessors in industrial Applications

COURSE INSTRUCTOR

HOD/EEE

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COURSE SUMMARY

COURSE NAME	COURSE INSTRUCT OR	NO. OF HOURS	COURSE PERIOD	TOTAL NO. OF REGISTERED STUDENTS	TOTAL NO. OF ATTENDED STUDENTS
8085 in Electrical Industrial Applications	Mr. M. Marikannan, AP/EEE	32	17-01-2022 to 21-01-2022	13	13

COURSE INSTRUCTOR

HOD

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Thamirabharani Engineering College

Department of Mechanical Engineering

List of Courses

Special Programmes for Advanced Learners (Academic Year: 2020-2021)

Staff In charge	Mr. M. Muthuganesh, AP/Civil	Mr.R.Saravanakumar, AP/Mech	Mr. M. Harris Simon, AP/Mech	Mrs. M. Sameem Suha, AP/Civil	Mr.V. Antony, AP/Mech	Mr.R.Saravanakumar, AP/Mech
Year	c	7	c	n	-	4
Semester	3	4	5	9	7	8
Course	Inter-Disciplinary	Core	Inter-Disciplinary	Inter-Disciplinary	Inter-Disciplinary	Core
Name of the Course	Computational Fluid Dynamics	Advanced Mechanisms Design and Simulation	Basics of Finite Element Methods	Total Quality Management	Advanced Strength of Materials	Advanced Manufacturing and Tooling
S.No	1	2	3	4	5	9

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ADVANCED LEARNER COURSE

TECALCOROS- ADVANCED STRENGTH OF MATERIALS

(Common for Civil and Mechanical Engineering)

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TECALCOD3-ADVANCED STRENGTH OF MATERIALS

Course curriculum prepared by

: Mr. V. Antony, AP / Mechanical

Approved by (Head of the Department):

Approved by the Mechanical Department Advisory committee meeting held on:

Approved by the (No.) IQAC meeting held on:

Approved by the (No.) Governing Council meeting conducted on:

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CIRCULAR

Ref:TEC/CIVIL/2021-22/ODD/ALC/05

Date: 11.10.2021

In order to make the student industry ready engineers and to provide advanced quality training to the advanced learners of third year of civil and mechanical engineering department, the course on "TECALC005-ADVANCED STRENGTH OF MATERIALS "by Mr. V. Antony, AP /Mechanical is being offered to enhance employability of the students, technical skills and make them more competitive. Course commences from 13.10.2021 to 18.12.2021. Students are instructed to make use of the opportunity. Advanced learners of third year of civil and mechanical engineering are eligible for this course.

Course Instructor

HoD/ME

To be read in

S. No	Class	Sign
1	III CIVIL	diff.
2	III MECH	Later

An)

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ADVANCED LEARNER COURSE

TECALCOG2 - ADVANCED STRENGTH OF MATERIALS

(Common for Civil and Mechanical Engineering)

OBJECTIVE

- > To analyse the stresses and deformations through advanced mathematical models.
- > To estimate the design strength of various industrial equipment's.

SYLLABUS

UNIT I ANALYSIS OF PLATES

Mathematical modeling of plates with normal loads – Point and Distributed Loads – Support conditions – Rectangular plates - Stresses along coordinate axes – Plate deformations – Axi- symmetric plates – Radial and tangential stresses – plate deflections.

UNIT II THICK CYLINDERS AND SPHERES

Equilibrium and compatibility conditions - Lame's Theorem - Boundary conditions - distribution of radial and tangential stresses - compound cylinders - Interference fits - Stresses due to temperature distributions.

UNIT III ROTATING DISCS

Lame-Clayperon Theorem – radial and tangential stresses in discs due to centrifugal effects – boundary conditions – solid and hollow discs – Interference fit on shafts –Strengthening of the hub – residual stresses – Autofrettege – Discs of variable thickness – Disc profile for uniform strength.

OUTCOME

- > Apply mathematical knowledge to calculate the deformation behavior of simple structures.
- Critically analyse problem and solve the problems related to mechanical elements and analyse the deformation behavior for different types of loads.

THEORY: 30 PERIODS

ASSESSMENT: 2 PERIODS

TOTAL: 32 PERIODS

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ADVANCED LEARNER COURSE

TECALC005 - ADVANCED STRENGTH OF MATERIALS

Lesson Plan & Schadula

S.NO	DATE	TOPIC	No. of Hours
1.	13.10.21	Mathematical modeling of plates with normal loads – Point and Distributed Loads – Support conditions	1
2.	14.10.21 to 15.10.21	Rectangular plates - Stresses along coordinate axes - Plate deformations	2
3.	18.10.21 to 19.10.21	Axi- symmetric plates – Radial and tangential stresses – plate deflections.	2
4.	20.10.21 to 21.10.21	Equilibrium and compatibility conditions - Lame's Theorem - Boundary conditions	2
5.	12.10.21 to 25.10.21	distribution of radial and tangential stresses – compound cylinders	3
6.	26.10.21 to 27.10.21	Interference fits – Stresses due to temperature distributions	2
7.	08.11.21 to 12.11.21	Lame-Clayperon Theorem – radial and tangential stresses in discs due to centrifugal effects	5
8.	16.11.21 to 19.11.21	boundary conditions – solid and hollow discs	4
9.	22.11.21 to 23.11.21	Interference fit on shafts -Strengthening of the hub	2
10.	01.12.21 to 02.12.21, 06.12.21	residual stresses – Autofrettege	3
11.	08.12.21, 13.12.21	Discs of variable thickness	2
12.	15.12.21	Disc profile for uniform strength	1
13.	18.12.21	Assessment	1
		Total Hours	30

Course Instructor

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HoD/CE



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ADVANCED LEARNER COURSE

TECALCO 63-ADVANCED STRENGTH OF MATERIALS

(Common for Civil and Mechanical Engineering)

ATTENDANCE SHEET FOR CIVIL ENGINEERING

S. No	Roll No.	Student Name	20/12/21	2/2/2	2/2/21	3/2/2	2/12/21	No.	29/3/2	20/22	2/2/2	2/22	Tiles	gips	1/1/22	Signature
			3	2	2	2	29	3	3		2	20	2	2	1	
1	953120103001	AASHIKA J	1	1	1	1	1	1	1	1	1	1	1	1	1	ABBAS
2	953120103010	KANMANI T	a	1	1	1	/	/	1	1	1	1	1	1	1	Hannit
3	953120103009	JEYALKSHMI V	1	1	1	1	1	1	1	1	1	1	1	1	1	Lexand.
4	953120103012	KIRUTHIKA S	1	1	1	1	1	1	1	/	1	1	1	1	1	Krone
5	953120103014	MAHAPRIYA M	1	1	1	1	1	1	1	1	1	1	1	1	1	Bloherm
6	953120103015	MALINI M	1	1	1	1	1	1	1.	/	1	1	1	1	1	Matin
7	953120103016	MARISELVI S	1	1	1	1	1	1	1	a	1	1	1	1	1	Mmsun
8	953120103017	MATHUBALA S	1	1	1	1	1	1	1	1	1	1	1	1	1	Nathren.
9	953120103020	RAMALAKSHMI R	1	1	1	1	1	1	1	1	1	1	1	1	1	Ramalahs,
10	953120103028	SURUTHIGA R	1	1	a	/	1	1	1	1	1	1	1	1	1	Shouther

SIGNATURE

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THAMIRA SHARANI ENCINEED IN COLLECT

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ADVANCED LEARNER COURSE TECALCOQ3-ADVANCED STRENGTH OF MATERIALS

(Common for Civil and Mechanical Engineering)

ATTENDANCE SHEET FOR MECHANICAL ENGINEERING

S.	Roll No.	Student Name				1 0	10	1 10	100							
No	Roll No.	Student Name	20/12/24	2/12/2	22/22	23/2/2	2/12/2	2/3	29/12/2	20/22	2/2/2	3/1/2	4/1/22	Slips	blike	Signature
			3	2	2	2	3	2	3	3	2	3	2	2	1	
1	953120114004	BALAJI SHRIRAM V	1	1	1	1	1	1	1	1	1	1	1	1	1	Balayistiran
2	953120114009	IVARAJAKANI G	/	1	1	1	1	1	1	1	1	1	1	1	1	Winn.
3	953120114018	MALATHI V	1	1	1	1	1	1	1	1	1	1	1	1	1	Nativa
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5	953120114023	RAJESH T	1	1	1	1	1	a	1	1	1	1	1	1	1	TRayuh
6	953120114024	SANKARAN S	1	1	1	1	1	1	1	1	1	1	/	1	1	Santony.
7	953120114027	SARAVANAN V	1	1	1	1	1	1	1	1	1	1	1	1	1	Sagration
8	953120114034	VARATHARAJ P	1	1	1	1	. /	/	1	1	1	1	1	1	1	Varanto
9	953120114036	VENKADESHWARAN M	1	a	1	/	1	1	1	1	1	1	1	1	1	Vordo aleix
16	953120114305	KEVIN S	1	1	1	/	1	1	1	1	1	1	1	1	1	bur.
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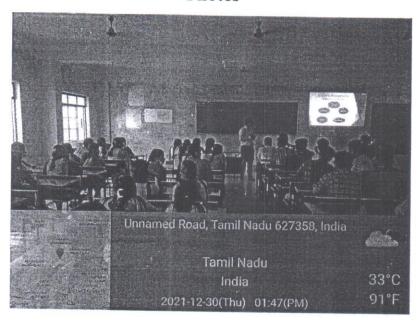
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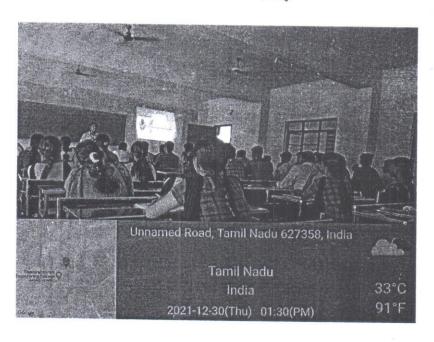


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Content delivery

ADVANCED LEARNER COURSE TECALC003 – ADVANCED STRENGTH OF MATERIALS

ASSESSMENT

COURSE CODE & NAME	:	-	
DEPARTMENT	:		
NAME OF THE STUDENT	:		
REG. NO.		ACADEMI	CVEAD
YEAR	:	SEM	CIEAR;
	-	SEM	: Total Marks: 50
	Part- A (10*1	l= 10)	
	PART-	A	
1 77 1 125 1			
1. Torsional Modulus Is	T	o Torsional Strengt	h.
A) Inversely Proportional			
B) Directly Proportional			
C) Equal			
D) Unequal			
2 torque que l	.1		
2 torque produc bending.	es the maximu	m shear stress due	to combined
a) Seasonal			
b) Equipment			
c) Composite			
d) Series			
3. In aqueduct, the nomina	1 flow of voles	i4 1	
a) 0.5 m/s	i now of veloc	ity be	ii B
b) 0.9 m/s			
c) 0.6 m/s			
d) 0.8 m/s			
	les with the wa	ter surface in a can	-1
channel.	vial the wa	noi surface in a can	ai or open
a) HGL		_	
b) TEL		1 2	1
c) TWL			
d) HTL		DEINCIDAL	
		THAMIRADUADANI ENGINEER	RIMS COLLEGE

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5. Pressure conduits are also known as	
a) Pipe conduits	
b) Gravity conduits	
c) Artesian conduits	
d) Surface conduits	
6. What is the flow of velocity in the pre-	essure conduit?
a) 0.5 to 0.6 m/s	onidan.
b) 0.6 to 0.7 m/s	
c) 0.6 to 0.8 m/s	
d) 0.8 to 1 m/s	
7. Which of the following conduits poss	ess low resistance to acid nature?
a) RCC pipes	is to the resistance to dota nature;
b) PVC pipes	
c) Steel pipes	
d) PSC pipes	
8. Expand HDPE?	
a) High Density Polyvinyl Pipe	
b) High Density Polyethylene Pipe	
c) High Deformed Polyvinyl Pipe	
d) High Deformed Polyethene Pipe	
9. Calculate the hoop stress at the botton	n of penstock, if a steel penstock
of 1 m and 10 mm thick is subjected to 1	00m head of water. Take w =
9.81 kN/m ³ .	
a) 49 N/mm^2	
b) 47 N/mm ²	
c) 45 N/mm ²	
d) 43 N/mm ²	
10. Maximum daily demand = × A	Average daily demand.
a) 2.5	
b) 3.5	
c) 1.5	
d) 4	
	De la companya della companya della companya de la companya della
	THAMIRABHARANI
	THAMIRABHARANI ENGINEERING COLLEGE Chathirampudukulam Village Chidambaranan
	Chidambarana Willage Village

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PART-B
11. Which of the following is not a short term estimate in population
forecast?
a) Graphical comparison
b) Geometrical increase method
c) Arithmetical increase method
d) Graphical extension method
12. $Pn = P[1+r/100]^n$ is a formula used in
a) Arithmetical increase method
b) Incremental increase method
c) Geometrical increase method
d) Graphical extension method
13. According to Freeman, estimate of fire demand can be made from the
formula?
a) $Q = 3175 P$
b) $Q = 2125 P$
c) $Q = 1136.5 (P/5 + 10)$
d) $Q = 2715 (P/5 + 10)$
14. The upward deflection caused by the prop is
a) Pl ³ /2EI
b) P1 ² /3EI
c) Pl ³ /3EI
d) P1 ⁴ /3EI
15. Stiffness of the propped cantilever is
a) 4EI/l
b) 6EI/1
c) 8EI/I
d) 5EI/1
16. The major losses of energy due to friction are calculated by using
a) Ingli's formula

a) Ingli's formulae

b) Emperical notations

c) Chezy's Equation

d) Lacey's Theory

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d) GH rails

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17. Determine the velocity of flow in a pipe if	the discharge capacity is
270 litres per second and cross sectional area is	s 5 cm ²
a) 4.5 m/s	o o om .
b) 5.4 m/s	
c) 3.4 m/s	
d) 2.5 m/s	
18. Calculate the reaction at prop of cantilever,	if the span of beam is 5m
and load is 20 kN.	of ocali is one
a) 4.25 kN	
b) 5 kN	
c) 6.25 kN	
d) 8 kN	
19. The width of broad gauge is	1 A 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
a) 1.445m	
b) 1.676m	
c) 1 m	
d) 0.61 m	
20. About 90% railway tracks lay with	rails in the world.
a) DH rails	
b) BH rails	
c) FF rails	

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ADVANCED LEARNER COURSE TECALCO03 – ADVANCED STRENGTH OF MATERIALS

The Theory	THE VICTOR STREET OF WATERCARDS
COURSE CODE & NAME DEPARTMENT NAME OF THE STUDENT REG. NO. YEAR	ASSESSMENT TECAL COOL-ADVANCED STRENGTH OF MAGERIAN MECHANICAL ENGINEERING SIVA-CUMAY P ACADEMIC YEAR: 2021- 2021 SEM Total Marks: 50
1. Torsional Modulus Is	Part- A (10*1= 10) PART-A To Torsional Strength.
D) Unequal 2 torque product bending. a) Seasonal Equipment c) Composite d) Series 3. In aqueduct, the nominal	es the maximum shear stress due to combined
a) 0.5 m/s b) 0.9 m/s c) 0.6 m/s d) 0.8 m/s 4 coinci channel.	des with the water surface in a canal or open
a) HGL b) TEL TWL d) HTL	PRINCIPAL THAMIRABHARANI ENGINEERING COLLEGE Chathirampudukulam Village, Chidambaranagar - Vepemkulam Read.

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©0.6 to 0.8 m/s	
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a) High Density Polyvinyl Pipe	
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c) High Deformed Polyvinyl Pipe	
d) High Deformed Polyethene Pipe	
9. Calculate the hoop stress at the botto	om of nenstock if a steel nenstack
of 1 m and 10 mm thick is subjected to	100m head of water Take w
9.81 kN/m ³ .	room nead of water. Take w =
(a) 49 N/mm ²	
b) 47 N/mm ²	
c) 45 N/mm ²	
d)\43 N/mm ²	
10.\Maximum daily demand = ×	Average daily demand.
a) 2.5	Contains defination
b) 3.5	
1.5	
d)\4	
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	THAMIRABHARANI ENGINEE VIllage, Chathirampudukulam Village,

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PART-B	
11. Which of the following is not a short term estimate in	population
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formula?	
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Q = 1136.5 (P/5 +10)	
Q = 2715 (P/5 + 10)	
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a) Pt ³ /2EI	
b) Pl ² /3EI	
OPIY3EI	
d) P1/3EI	
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(a) 4EI/1	
b) 6EI/1	
c) 8EI/I	
d) 5EIA	
16. The major losses of energy due to friction are calculate	ed by using

a) Ingli's formulae b) Emperical notations

Chezy's Equation d) Lacey's Theory

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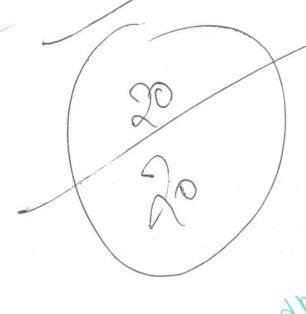
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- 17. Determine the velocity of flow in a pipe if the discharge capacity is 270 litres per second and cross sectional area is 5 cm².
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- c) 3.4 m/s
- d) 2.5 m/s
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- a)_1.445m
- 6) 1.676m
- c) 1) m
- d) Ø.61 m
- 20. About 90% railway tracks lay with

rails in the world.

- a) DH rails
- b) BH rails
- c) FF rails
- d) GH rails



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2) The hoof stress (or) circult Atracing stresses
3) the Longitatinal (62)
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PRINCIPAL PRINCIPAL THAMIRABHARANI ENGINEERING COLLEGE Chathirampudukulam Village, Chathirampudukulam Village,
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ADVANCED LEARNERS COURSE TECALCO03 - ADVANCED STRENGTH OF MATERIALS

FEEDBACK FORM

COURSE CODE & NAME

: TECALCOO! - ADVANCED STRENGTH OF MOTERIAL

DEPARTMENT

: Mechanical Engennering

NAME OF THE STUDENT

: Sivoukumon . P

REGISTER NUMBER

:953120114317

ACADEMIC YEAR: 2021 - 22

YEAR

: [

SEM

THE DESIGN OF THE COURSE

Yes/No A. Were objectives of the course clear to you?

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

4. High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4/Agree 5. Strongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The course assessment conducted was adequate

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4 Agree 5. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes / No

NATURE OF THE STUDENT

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ADVANCED LEARNERS COURSE TECALCO 3- ADVANCED STRENGTH OF MATERIALS

FEEDBACK FORM

COURSE CODE & NAME

.

DEPARTMENT

.

NAME OF THE STUDENT

REGISTER NUMBER

:

ACADEMIC YEAR:

YEAR

•

SEM

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you? Yes / No

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

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1. Too Low

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D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes / No

SIGNATURE OF THE STUDENT

THAMIRABHARANI ENGINEERING COLLEGE

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ADVANCED LEARNER COURSE TECALCO 9 - ADVANCED STRENGTH OF MATERIALS

×'	ASSESSMENT	
COURSE CODE & NAME	: /	
DEPARTMENT	:	
NAME OF THE STUDENT	• •	
REG. NO.	0	ACADEMIC YEAR:
YEAR /	•	SEM :
		Total Marks: 50
	Part- A (10*1=10)	
	PART-A	
1. Torsional Modulus Is	To Torsion	al Strength.
A) Inversely Proportional		
B) Directly Proportional		
C) Equal		
D) Unequal		
2 torque produces	the maximum shear	stress due to combined
bending.		
a) Seasonal		
b) Equipment		
c) Composite		
d) Series		
3. In aqueduct, the nominal f	flow of velocity be	
a) 0.5 m/s		
b) 0.9 m/s		
c) 0.6 m/s		
d) 0.8 m/s		· ·
4 coincide	s with the water surfa	ce in a canal or open
channel.		
a) HGL		
b) TEL	*	
e) TWL	- A-	
d) HTL	ω	
	THAMIRABHARANI ENGIN	N.
	TOTAL CALOUR	

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ADVANCED LEARNER COURSE

TECALCO43 - ADVANCED STRENGTH OF MATERIALS ASSESSMENT : TECAL COO) - ADVANCED STRENGTH OF MATERIALS COURSE CODE & NAME : CIVIL ENGINEERING DEPARTMENT NAME OF THE STUDENT : MALINI-M ACADEMIC YEAR : 2021-2022 : 953/20/030/5 REG. NO. SEM : 7 YEAR Total Marks: 50 Part- A (10*1=10) PART-A To Torsional Strength. 1. Torsional Modulus Is A) Inversely Proportional Directly Proportional C) Equal D) Unequal ___ torque produces the maximum shear stress due to combined 2. bending. a) Seasonal **Equipment** c) Composite d) Series 3. In aqueduct, the nominal flow of velocity be a) 0.5 m/s600.9 m/s c) 0.6 m/s d) 0.8 m/scoincides with the water surface in a canal or open channel. A) HGL b) TEL c) TWL THAMIRABHARANI ENGINEERING COLLEG d) HTL Chathirampudukulam Village, Chidambaranagar - Vepemkulam Road, Thatchanallur, Tirunelveli - 627 358.

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5. Pressure conduits are also known as _	
a) Pipe conduits	
b) Gravity conduits	
c) Artesian conduits	
W) Surface conduits	
6. What is the flow of velocity in the pr	essure conduit?
a) 0.5 to 0.6 m/s	
b) 0.6 to 0.7 m/s	
© 0.6 to 0.8 m/s	
9 - 2 - 1	. 1
d) 0.8 to 1 m/s 7. Which of the following conduits pos	sess low resistance to acid nature?
a) RCC pipes	
b) PVC pipes	
Steel pipes	
d) PSC pipes	
8. Expand HDPE?	
a) High Density Polyvinyl Pipe	
h High Density Polyethylene Pipe	
High Deformed Polyvinyl Pipe	
Dalyathane Pine	1 1 and als
a a 1 1 to the boon stress at the hott	om of penstock, if a steel penstock
of 1 m and 10 mm thick is subjected t	o 100m head of water. Take w -
9.81 kN/m^3 .	
(a) 49 N/mm ²	
b) 47 N/mm ²	
c) 45 N/mm ²	
d) 43 N/mm ²	1-iler domand
10. Maximum daily demand =	× Average daily demand.
a) 2.5	
b) 3.5	
€ 1.5	
d) 4	
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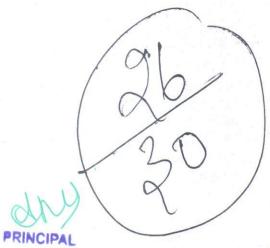


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PART-B	
11. Which of the following is not a short term estimate in population	
forecast?	
(a) Graphical comparison	
b) Geometrical increase method	
(c) Arithmetical increase method	
d) Graphical extension method	
\sim 12 . Pn = P[1+r/100] ⁿ is a formula used in	
a) Arithmetical increase method	
b) Incremental increase method	
Geometrical increase method	
G 1: 1tangian mathod	tha
13. According to Freeman, estimate of fire demand can be made from	uie
formula?	
a) $Q = 3175 P$	
(a) O = 2125 P	
O(0) = 1136.5 (P/5 + 10)	
$(3) 0 = 2715 (P/5 \pm 10)$	
14. The upward deflection caused by the prop is	
a) Pl ³ /2EI	
(b) Pl ² /3EI	
© Pl ³ /3EI	
(d) Pl4/3EI	
15. Stiffness of the propped cantilever is	
(a) 4EI/1	
(b) 6EI/1	
(c) 8EI/I	
d) 5EI/l	ŗ
16. The major losses of energy due to friction are calculated by using	,
	1
a) Ingli's formulae	
b) Emperical notations	
Chezy's Equation	
d) Dacey's Theory THAMIRABHARANI ENGINEERING COLLEGE Chathirampudukulam Village	
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- 17. Determine the velocity of flow in a pipe if the discharge capacity is 270 litres per second and cross sectional area is 5 cm².
- a) 4.5 m/s
- (b) 5.4 m/s
- c) 3.4 m/s
- d) 2.5 m/s
- 18. Calculate the reaction at prop of cantilever, if the span of beam is 5m and load is 20 kN.
- a) 4.25 kN
- b) 5 kN
- 6.25 KN
- d) 8 KN
- 19. The width of broad gauge is _____
- a) 1.445m
- b) 1.676m
- c) 1 m
- d) 0.61 m
- 20. About 90% railway tracks lay with _____ rails in the world.
- (a) DH rails
- BH rails
- c) FF rails
- d) GH rails



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stresses in thick Cylinder.

Thick ayrinder subjected to internal and external radial pressure.

77 Internal radius of thick aghinder.

Bursting fore = (σ_{x2xxx}) - $(\sigma_{r}+d\sigma_{r}) \times (2(r+dr)L)$ = $2L \left[-\sigma_{r}\times dr - r \times d\sigma_{r} - dr \cdot d\sigma_{r}\right]$ = $-2L \left[\sigma_{r}\cdot dr + r \cdot d\sigma_{r}\right]$

Russing fore = 2xox/xdr.

Equating resisting force to brossing force.

2xocxlxdr = -2xl Grxdr+r.dor)

OC=-Or-r. dor

= Orxexxxl - (Coridor) x2/ (r+dr)

= 9x2xxxl- [(or+dop)x(2lr+2ldr)]

= Tx2xxxl-xxxxlxq _oxxxlxdr -2xxxlxdxor

-2xlxdrxdor.

The Longitudinal skess

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Longitudinal ANNERS OL = Force acting on the end. Cover due to internal pressione

Aorea of Goess section of the Gybinder

 $\sigma_{L} = \frac{\pi_{X} r_{1}^{2} \times P}{\pi_{X} (r_{2}^{2} - r_{1}^{2})}$ $\sigma_{L} = \frac{r_{1}^{2}}{r_{2}^{2} - r_{1}^{2}}$ $\sigma_{L} = \frac{r_{1}^{2}}{r_{2}^{2} - r_{1}^{2}}$

Shear Stress

The propinsum shear stress

Timax =
$$\left[\frac{\sigma_{C} - (\sigma_{F})}{2}\right]$$

$$= \frac{1}{2}\left[\frac{b}{r^{2}} + a\right] - \left(a - \frac{b}{r^{2}}\right]$$

$$Timax = \frac{1}{2}x\left[\frac{b}{r^{2}} + a - a + \frac{b}{r^{2}}\right]$$

$$Timax = \frac{1}{2}x\left[\frac{2}{r^{2}}\right]$$

$$Timax = \frac{1}{2}x\left[\frac{2}{r^{2}}\right]$$

20

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ADVANCED LEARNERS COURSE TECALCOQ3 - ADVANCED STRENGTH OF MATERIALS

FEEDBACK FORM

COURSE CODE & NAME

: TECALCOO) - ADVANCED STRENGTH . FMATERIALS

DEPARTMENT

: CIVIL

NAME OF THE STUDENT

: MACINI

REGISTER NUMBER

: 953/20/030/5

ACADEMIC YEAR: 2021-2022

YEAR

:11

SEM

: 711

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you?

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

2. Low

3. Moderate

4. High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs 1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. trongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree . Agree 5. Strongly agree

C. The course assessment conducted was adequate

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 3. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes / No

OF THE STUDENT

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ADVANCED LEARNER COURSE TECALCO 23 – ADVANCED STRENGTH OF MATERIALS

		ASSESSMENT		
	COURSE CODE & NAME	: TECALCODI- ADVANCE	D STENGTH OF M	ATERIALS
	DEPARTMENT	: Mechanical engine		
	NAME OF THE STUDENT REG. NO. YEAR	: Venkadeshwaran N : 953120114030b	ACADEMIC YEAR SEM	: 2021-22 : 111 Marks: 50
		Part- A (10*1=10)		
		PART-A		11
		To Torri	anal Strangth	4/
	1. Torsional Modulus Is	10 10rsi	onal Strength.	10
	A) Inversely Proportional			T ()
	B Directly Proportional			50
	C) Equal			
	D) Unequal	and a maximum share	or stress due to com	hined
	2torque produc	es the maximum she	al Stiess due to con	101110
	bending.			
	a) Seasonal			
	(b) Equipment			
	c) Composite			
	d) Series3. In aqueduct, the noming	al flow of velocity be		
	a) 0.5 m/s	dy 110 W 01 Verocity		
	b) 0.9 m/s			
1	c) 0.6 m/s			
	d) 0 8 m/s			
	coinc	ides with the water su	arface in a canal or	open
	channel.			
	(a) HGL			
	b) TEL		١.	
9	c) TWL		MNU	
	d) HTL		EX.	

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5. Pressure conduits are also known as	
Pipe conduits	
b) Gravity conduits	
c) Artesian conduits	
d) Surface conduits	
6. What is the flow of velocity in the pressure cond	uit?
a) 0.5 to 0.6 m/s	
b) 0.6 to 0.7 m/s	
©)0.6 to 0.8 m/s	
d) 0.8 to 1 m/s	
7. Which of the following conduits possess low res	sistance to acid nature?
a) RCC pipes	
b) PVC pipes	
Steel pipes	
d) PSC pipes	
8. Expand HDPE?	
a) High Density Polyvinyl Pipe	
6) High Density Polyethylene Pipe	
c) High Deformed Polyvinyl Pipe	
(d) High Deformed Polyethene Pipe	
Q Calculate the hoop stress at the bottom of penst	ock, if a steel penstock
of 1 m and 10 mm thick is subjected to 100m head	d of water. Take w =
9.81 kN/m^3 .	
(a) 49 N/mm ²	
b) 47 N/mm ²	
c) 45 N/mm ²	
d) 43 N/mm ²	
10. Maximum daily demand × Average of	daily demand.
a) 2.5	
b) 3.5	
©71.5	
d) 4	(100
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	PART-B
	11. Which of the following is not a short term estimate in population
	forecast?
	a) Graphical comparison
	b) Geometrical increase method
	c) Arithmetical increase method
	d) Graphical extension method
	12. $Pn = P[1+r/100]^n$ is a formula used in
	12. In = P[1+1/100] is a formula used in
	a) Arithmetical increase method
	b) Incremental increase method
	Geometrical increase method
	d) Graphical extension method
	13. According to Freeman, estimate of fire demand can be made from the
	formula?
	a) $Q = 3175 P$
	b) Q = 2125 P
	Q = 1136.5 (P/5 + 10)
	d) $Q = 2715 (P/5 + 10)$
	14. The upward deflection caused by the prop is
	a) Pl ³ /2EI
	b) Pl ² /3EI
	© Pl ³ /3EI
	d) Pl4/3EI
	15. Stiffness of the propped cantilever is
	(a) 4EI/l
	b) 6EI/1
	c) 8EI/I
-	d) 5EI/1
1	16. The major losses of energy due to friction are calculated by using
	a) Ingli's formulae
	b) Emperical notations
	-C) Chezy's Equation
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	THAMIRADIAN VIII and VIII and
	Chidambaranagar - Vepemkulam Road, Chidambaranagar - Vepemkulam Road, Chidambaranagar - Vepemkulam Road,

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17. Determine the velocity of flow in a pipe if the 270 litres per second and cross sectional area is 5	e discharge capacity is cm ² .
270 litres per second and closs sectional area is	
a) 4.5 m/s	
6) 5.4 m/s	
c) 3.4 m/s	
105-1-	C1
18. Calculate the reaction at prop of cantilever, in	f the span of beam is 5m
and load is 20 kN.	
a) 4.25 kN	
b) 5 kN	
(c) 6.25 kN	
(d) 8 kN	
19. The width of broad gauge is	
a) 1.445m	
6) 1.676m	
(c) 1/ m	
d) 0.61 m	
20. About 90% railway tracks lay with	rails in the world.
a) DH rails	
b) BH rails	
c) FF rails	
d) GH rails	

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stresses on thick cylinder otick cylinder subjected to & internal and external radional prusuae r, > Internal radions of thick cylinder r2> Esitural radions of thick cylinder Busting Force = (0 x 2xxx) - ((0 5+ do) x (a(r+dr) l) =al[-orxdr-rxdor-dr.dom] esplasher as pushing Force = 2 × 52 × 1 ×dr. Equating susisting force to beauting force 2 YOLX 1 xdr = 2 xllorxdrardor) OL = - of - r dor = orxxxxxl-[6rdor)xxl(rdor) = Orxxxxx/-[(or+dor)x(alr+2lof) = 20xx2xxxl-xxxxlxox-oxx2xlxdx 2xxxxxxdxxx-22/2dxxdor-The longotional streets. 0, = P, x11 x 1/2 K. X L'S

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congratudared stress of = Fore aiding on the and core due to Area of was sention of the approder OF = UXN XB Ax(2-2) 52= [+2] xp Shear Strees The moximum shear street 1 mosk = (01-(01)-= 1/2 (1/2+a) - (a-b/2 Those = (x) b/2+ a-a+b/2 Twore = (ax [dyb/2]

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ADVANCED LEARNERS COURSE TECALCOOM - ADVANCED STRENGTH OF MATERIALS

FEEDBACK FORM

COURSE CODE & NAME

: TECAL COOI - ADVANCED STRENGTH OF MATERIALS

DEPARTMENT

: Mechanical Engineering

NAME OF THE STUDENT

: Verkadeshwaran M

REGISTER NUMBER

: 9531201140306

ACADEMIC YEAR : 200) - 33

YEAR

: 11

SEM

117

THE DESIGN OF THE COURSE

A. Were objectives of the course clear to you? Yes / No

B. The course contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The level of the course was

1. Too Low

2. Low

3. Moderate

(4.) High

5. Very high

E. The course exposed you to new knowledge, practices and meets the current industrial needs

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4 Agree 5. Strongly agree

THE CONDUCT OF COURSE

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

C. The course assessment conducted was adequate

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neither agree nor disagree (4. Agree 5. Strongly agree

E. Were objectives of the course realized? Yes/No

(M)

Vand

SIGNATURE OF THE STUDENT

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REPORT								
1 Program name TECALC005 - ADVANCED STRENGTH OF MATERIALS								
2	Date of program duration	13.10.2021 to 18.12.2021						
3	Resource person	Mr. V. Antony, AP /Mechanical/ TEC						
4	Participants	16						
5	Objective of program	The main objective of this program is to inculcate the advanced knowledge to the advanced learning students of mechanical & civil engineering department and to make the students be familiar with the Apply the strain energy concept to structural elements, Apply theories of failure in structural elements, Analyse curved elements & Analyze different stresses in thin walled sections, thick shells and rotating elements.						
6	Program description	In this course This course teaches the fundamentals for the analysis of materials and structures in engineering with a specific focus on aircraft and space structures. The lectures are split into two parallel modules: Solid Mechanics and Materials. The Solid Mechanics module covers general material relating to the analysis of stresses, strains, deformation, and strength in solid materials and simple components. Specific topics include stress and strain tensors, elasticity, plasticity, elementary solutions of theories of elasticity and plasticity, principles of minimum potential energy, and finite element modelling. The second module, Materials is focused on the application of materials in design of aerospace components and structures.						
7	Outcome of this program	On completion of this course the students will have the confidence to design various concrete structures and structural elements by limit state design and detail the same for ductility as per codal requirements.						

COURSE INSTRUCTOR

HOD/CE

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COURSE SUMMARY

COURSE NAME	COURSE INSTRUCTO R	NO. OF HOU RS	COURSE PERIOD	TOTAL NO. OF REGISTER ED STUDENTS	TOTAL NO. OF ATTENDED STUDENTS
TECALC003 ADVANCED STRENGTH OF MATERIALS	Mr.V Antony, AP/Mech	30	20.12.2021 to 06.01.2022	25	25

Course Instructor

Principal

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