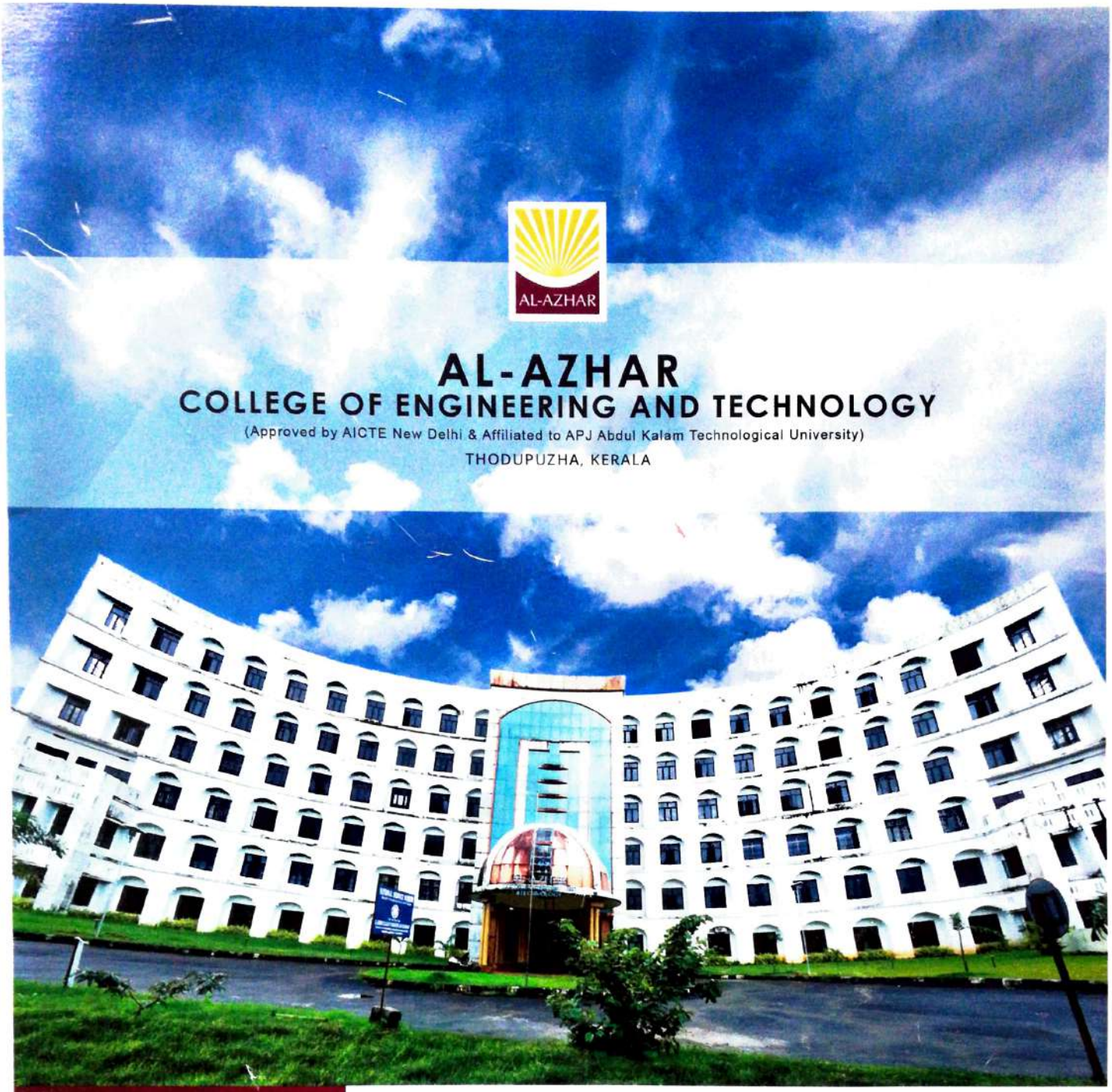


AL-AZHAR
COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University)

THODUPUZHA, KERALA

COURSE DIARY

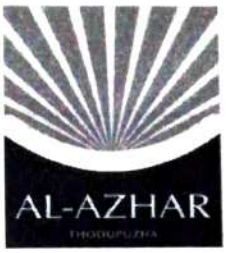
NAME OF FACULTY	: ANJALI PRASAD K P
MOBILE NO	: 9645181316
DESIGNATION	: ASSISTANT PROFESSOR
DEPARTMENT	: APPLIED SCIENCE
COURSE/SUBJECT	: MAT 102 VECTOR CALCULUS, DE & TRANSFORMS
SEMESTER	: II YEAR : 2021-2022

General Instructions

- Student performance should be evaluated solely on an academic basis.
- Student's evaluation should be fair, consistent, transparent and accountable.
- Evaluation of student's performance should be disclosed to the students.

1. Keep the Course Diary up to date by clearly indicating the subject coverage and students attendance on the relevant pages.
2. Paste the syllabus in the relevant page.
3. Write/ paste the Course plan in the releveant page.
4. Events in a semester such as Series Test days, Cultural/ Celebration days, days for extra / co-cumricular activities etc may be indicated in the Year Calender.
5. Minimum 2 no. of assignments should be given.
6. Show complete split up of sessional marks in the relevant page.Final sessional mark for each student should be equal to the sum of marks awarded for Attendance , Assignments and Series Tests.
7. All the entries in the course diary must be, legibly written without overwriting and free of errors.
8. Do not count marks of class tests along with the series test for compounting sessional mark.
9. The staff member will be responsible for the safe custody of the Course Diary and (s) he should return it to the HOD at the end of semester or earlier if (s) he leaves the department or discontinue the subject.
10. Follow KTU regulations for computing sessional marks.

PRINCIPAL



AL-AZHAR

COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University)

Perumpillichira P.O,Thodupuzha, Idukki Dist.,Kerala-685 605

Phone:04862 227944, E-mail: acettdpa@gmail.com, http://engineering.alazharthodupuzha.org/

COURSE DIARY

Branch	:AUTOMOBILE/CIVIL/ELECTRONICS/MECHANICAL/COMPUTER SCIENCE & ENGG.
Semester	: SECOND
Course/Subject	: MAT 102 VECTOR CALCULUS, DIFFERENTIAL EQUATIONS & TRANSFORMS.
Year	: 2021-2022

Name of Faculty	: ANJALI PRASAD K P
Mobile No.	: 9645181316
Designation	: ASSISTANT PROFESSOR
Department	: APPLIED SCIENCE.

VISION

To be the trendsetters in the field of education by imparting quality education and facilitating our students to be remarkable through excellence and commitment.

MISSION

To prepare each student for academic, social and personal success by developing active and creative minds, a sense of understanding and compassion, courage to act on their beliefs.

OUR QUALITY POLICY

We strive to achieve quality education and training of our in a congenial and disciplined environment through

* Active involvement at all levels
* Upgradation of facilities and infrastructure
* Quality improvement of faculty
* Development of communication skills
* Commitment to continual improvement

SCHEDULE OF WORK/TIME TABLE

DAYS	1	2	3	4	5	6	7
MON		MAT 102 VDT (L)					
TUE				MAT 102 VDT (L)			
WED		MAT 102 VDT (L)					
THU	MAT 102 VDT (L)	MAT 102 VDT (T)					
FRI						MAT 102 VDT (R)	

PRINCIPAL
Al-Azhar College of Engineering & Technology

COURSE PLAN

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be covered
1	20.04.22 Wednesday (2)	1	MODULE-3. ORDINARY DIFFERENTIAL EQUATIONS Homogeneous LDE of 2nd order, Superposition principle, general solution
2	21.04.22 Thursday (1) (2)	2	Homogeneous linear ordinary differential equation →
3	26.04.22 Tuesday (4)	1	→ of 2nd order with constant coefficients.
4	27.04.22 Wednesday (2)	1	Second order Euler Cauchy equation.
5	28.04.22 Thursday (1) (2)	2	Non homogeneous LDE of 2nd order with constant coefficients.
6	2.05.22 Monday (2)	1	Solution by undetermined coefficients.
7	03.05.22 Tuesday (4)	1	Variation of parameters.
8	05.05.22 Thursday (1)	1	Higher order equation with constant coefficients,
9	05.05.22 Thursday (2)	1	Higher order continuation (T)
10	10.05.22 Tuesday (4)	1	MODULE-4 LAPLACE TRANSFORMS. Laplace transform, linearity, transform of basic functions.
11	11.5.22 Wednesday (2)	1	Inverse transform, First shifting theorem.
12	12.05.22 Thursday 1 (2)	2	Transforms of derivatives and integrals. (2nd Hr T)
13	16.05.22. Monday (2)	1	Solution of Differential equations.
14	17.05.22. Tuesday (4)	1	IVP by Laplace transforms.
15	19.05.22 Thursday (1)	1	Unit step function
16	19.05.22 Thursday (2)	1	Second shifting theorem.
17	23.05.22 Monday (2)	1	Dirac delta function

COURSE PLAN

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be covered
18	24.05.22 Tuesday (4)	1	Solution of ODE involving dirac delta function.
19	26.05.22 Thursday (1) (2)	2	Convolution and related problems. (T 2nd Hour)
20	1.06.22 Wednesday (2)	1	MODULE-5 FOURIER TRANSFORMS. Fourier integral representation.
21	2.06.22 Thursday (1)	1	Fourier sine and cosine integral.
22	2.06.22 Thursday (2)	1	Fourier sine and cosine transform. (T)
23	6.06.22 Monday (2)	1	Complex fourier integral representation.
24	8.06.22 Wednesday (2)	1	Fourier transform and its inverse transform
25	9.06.22 Thursday (1)	1	Basic properties.
26	13.06.22 Monday (2)	1	Fourier transform of derivatives
27	16.06.22 Thursday (1) (2)	2	Convolution theorem. (2nd Tutorial)
28	20.06.22 monday (2)	1	MODULE-I CALCULUS OF VECTOR FUNCTIONS. Vector valued function of a scalar variable.
29	21.06.22 Tuesday (4)	1	Derivative, Geometrical meaning.
30	22.06.22 Wednesday (2)	1	Motion along a curve, speed, velocity, acceleration.
31	23.06.22 Thursday (1)	1	Gradient and its properties.
32	23.06.22 Thursday (2)	1	Directional derivative. (T)
33	27.06.22 Monday (2)	1	Divergence and curl.
34	28.06.22 Tuesday (4)	1	Line integral with respect to arc length, line integrals of vector fields.

COURSE PLAN

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be covered
35	29.06.22 Wednesday (2)	1	Work done as line integral.
36	30.6.22 Thursday (1)	1	Conservative field, Independence of path, potential function.
37	30.6.22 Thursday (2)	1	MODULE-2 VECTOR INTEGRAL THEOREMS. Green's theorem
38	4.7.22 Monday (2)	1	Application.
39	5.7.22 Tuesday (4)	1	Surface integrals.
40	6.7.22 Wednesday (2)	1	flux integrals
41	7.7.22 Thursday (1)	1	Flux evaluation.
42	7.7.22 Thursday (2)	1	Divergence theorem (T)
43	11.7.22 Monday (2)	1	Application.
44	12.7.22 Tuesday (4)	1	Stokes theorem
45	13.7.22 Wednesday (2)	1	Application.
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SUBJECT COVERAGE

No.	Date & Day (Period)	Cumulative Hrs.	Topics covered	Mode of Instruction
1	18.04.22 Monday (2)	1	MODULE III HLODE of second order, Super position principle, G.S	L
2	19.04.22 Tuesday (1)	1	Basic problems	L
3	19.04.22 Tuesday (2)	1	Homogeneous linear ODEs of second order .	L
4	19.04.22 Tuesday (4)	1	Problems.	L
5	19.04.22 Tuesday (5)	1	Second order Euler cauchy's equation.	L
6	20.04.22 Wednesday (2)	1	HLODE – problems	L
7	20.04.22 Wednesday (4)	1	Euler problems .	L
8	25.04.22 Monday (2)	1	Non homogeneous eln, method of undetermined coeffn.	L
9	25.04.22 Monday (3)	1	MVC – problems	L
10	26.04.22 Tuesday (2)	1	Problems	L
11	26.04.22 Tuesday (3)	1	Problems	L
12	26.04.22 Tuesday (4)	1	Variation of parameters	L
13	27.04.22 Wednesday (4)	1	Problems	L
14	28.04.22 Thursday (1)	1	Problem, Higher order ODE	L
15	28.04.22 Thursday (2)	1	Previous year university QP solving (Variation of parameters)	T
16	28.04.22 Thursday (5)	1	Previous year university QP solving. (eln of DE's)	T
17	4.05.22 Wednesday (2)	1	MODULE IV LAPLACE TRANSFORMS	L

SUBJECT COVERAGE

No.	Date & Day (Period)	Cumulative Hrs.	Topics covered	Mode of Instruction
18	5.05.22 Thursday (1)	1	First shifting property.	L
19	5.05.22 Thursday (2)	1	previous year qp solving (Basic Laplace transforms)	T
20	9.05.22 Monday (2)	1	Properties of Laplace transforms.	L
21	10.05.22 Tuesday (4)	1	Problems.	L
22	11.05.22 Wednesday (2)	1	Sln of DE by LT	L
23	12.05.22 Thursday (6)	1	Problems.	L
24	13.05.22 Friday (6)	1	Unit step function, inverse.	L
25	16.05.22 Monday (2)	1	Problems.	L
26	17.05.22 Tuesday (2)	1	Inverse by partial fraction.	L
27	17.05.22 Tuesday (4)	1	Problems.	L
28	19.05.22 Thursday (1)	1	Dirac delta functions	L
29	19.05.22 Thursday (2)	1	Previous year QP solving (Inverse, convolution, Differential Equation)	T
30	23.05.22 Monday (2)	1	Problems.	L
31	23.05.22 Monday (4)	1	Problems.	L
32	24.05.22 Tuesday (4)	1	Convolution,	L
33	26.05.22 Thursday (1)	1	Problems.	L
34	26.05.22 Thursday (2)	1	Previous year QP solving (Inverse, convolution, Differential Equation)	T

SUBJECT COVERAGE

No.	Date & Day (Period)	Cumulative Hrs.	Topics covered	Mode of Instruction
35	27.05.22 Friday (2)	1	MODULE-V FOURIER TRANSFORMS & INTEGRALS.	L
36	30.05.22 Monday (2)	1	Fourier integral representations.	L
37	30.05.22 Monday (3)	1	Problems.	L
38	31.05.22 Tuesday (1)	1	fourier cosine transform	L
39	31.05.22 Tuesday (2)	1	fourier Sine transform.	L
40	13.06.22 ~~Tuesday~~ (2)	1	Fourier transforms & inverse transforms	L
41	20.06.22 Monday (2)	1	Properties	L
42	21.06.22 Tuesday (4)	1	Convolution	L
43	23.06.22 Thursday (1)	1	MODULE-I: Vector functions, derivatives	L
44	23.06.22 Thursday (2)	1	Speed, velocity, acceleration.	L
45	27.06.22 Monday (2)	1	Gradient and properties.	L
46	28.06.22 Tuesday (4)	1	~~MODULE-I~~ Directional derivative.	L
47	28.06.22 Tuesday (5)	1	Divergence & curl., conservative field.	L
48	30.06.22 Thursday (1)	1	Line Sle,	L
49	30.06.22 Thursday (2)	1	Work done, Path independence	L
50	4.07.22 Monday (2)	1	MODULE-II Green's theorem	L
51	6.07.22 Wednesday (2)	1	Application	L

SUBJECT COVERAGE

No.	Date & Day (Period)	Cumulative Hrs.	Topics covered	Mode of Instruction
52	06.07.22 Wednesday (4)	1	Surface integral	L
53	16.07.22 Saturday (5)	1	flux, sourse sink.	L
54	16.07.22 Saturday (6)	1	Divergence theorem	L
55	21.07.22 Thursday (1)	1	Stokes theorem	L
56	21.07.22 Thursday (2)	1	Problems	T
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Attendance statement from APRIL 2022 To JULY 2022

Sl.No.	Roll No.	Name	Month	APRIL														
			Date	18	19	19	19	19	25	25	25	25	26	26	26	27	28	28
			Period	2	1	2	4	5	2	4	2	3	1	3	4	4	1	2
1	1	AKSHATH BINU		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2	2	ASNAF HAMZA		a	x	x	x	x	x	x	x	x	x	x	x	x	a	a
3	3	JAYAKRISHNAN K		a	a	a	a	a	x	x	x	x	x	x	x	x	x	x
4	4	AROMAL PRASAD		x	x	x	a	a	x	x	a	a	x	x	x	x	x	x
5	5	FATHIMA NIDA		a	a	a	a	a	a	a	x	x	x	x	x	x	x	x	x
6	6	GOVARDHAN N		x	x	x	x	x	a	a	a	a	x	x	x	x	x	x	x
7	7	NANDHU SAJEEV		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8	8	SURYA AR		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9	9	AALIYA FATHIMA		a	a	a	x	a	x	x	x	x	x	x	x	x	x	x	x
10	10	ABDUL MANAF A A		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11	11	AVIN RAMESH V		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
12	12	EMMANUEL SHAJI		x	a	a	a	a	a	a	a	a	x	x	x	x	x	x	x
13	13	ADITHYA SIVAN		a	a	a	a	a	a	a	x	a	a	a	a	x	x	x	x
14	14	ALAN GIGI		a	a	a	a	a	x	x	x	x	x	x	x	x	x	x	x
15	15	ARRASHAD AZEEZ		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
16	16	ARUN RAJ		a	a	a	a	a	a	a	x	x	a	x	x	x	x	x	x
17	17	JAIGOVIND KS		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
18	18	MUHAMMED NISSAM M R		a	a	a	a	a	x	x	a	a	x	x	x	x	x	x	x
19	19	RASHIN M HABEEB		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
20	20	SANJU KRISHNA		a	a	a	a	a	x	x	a	a	x	x	x	x	x	x	x
21	21	FARHANA JALUDHEEN		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
22	22	ABINNATH AV		a	a	a	a	a	x	x	a	a	x	x	x	x	x	x	x
23	23	ALAMEEN ANSARI		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
24	24	ALAN JOSE		a	a	a	a	a	x	x	x	x	x	x	x	x	x	x	x
25	25	ALEENA BIJU		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
26	26	ALTHAF SHAJAHAN		a	x	x	a	a	a	a	x	x	x	x	x	x	x	x	x
27	27	AMARNATH M		x	x	x	x	x	a	a	a	a	x	x	x	x	x	x	x
28	28	ANGELO V T		a	a	a	a	a	x	x	a	a	x	x	x	x	x	x	x
29	29	ASHIQ RASHEED		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
30	30	ASWIN M		a	a	a	a	a	x	x	x	x	x	x	x	x	x	x	x
31	31	FATHIMA JESNA JALEEL		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
32	32	FATHIMA SABU		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
33	33	GOUTHAM JOSHY		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
34	34	GAYOSE THANKACHAN		x	x	x	x	x	a	a	a	a	x	x	x	x	x	x	x
35	35	GOKUL SURESH		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Signature of HOD

Signature of Principal

Attendance statement from..... APRIL 2022 ..... To.... JUNE 2022 .....

Sl.No.	Roll No.	Name	Month	APRIL																	Ⓣ
			Date	18	19	19	19	19	20	20	25	25	26	26	26	27	28	28			
			Period	2	1	2	4	5	2	4	2	3	1	3	4	4	1	2			
36	36	JOSON GEORGE		a	a	a	a	a	x	x	x	x	x	x	x	x	x	x			
37	37	MAHIN ASSIS		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
38	38	MEENAKSHI M MADHU		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
39	39	MOHAMMED RUBIN RAZA		a	a	a	a	a	a	a	x	x	x	x	x	x	x	x			
40	40	MOHAMMED SHANIB		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
41	41	MUHAMMED JASIR IH		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a			
42	42	NILE ABRAHAM		a	a	a	a	a	x	x	a	a	x	x	x	x	x	x			
43	43	RAIHANA AZEEZ		a	x	x	x	x	x	x	a	a	x	x	x	x	x	x			
44	44	SHARMEEN T P		a	x	x	x	x	x	x	x	x	x	x	x	x	a	a			
45	45	SOBHITH SIVAN		x	x	x	x	x	x	x	x	x	x	x	v	x	x	x			
46	46	VRINDHA BABU		a	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
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Signature of HOD

Signature of Principal

Sl. No.	(T) MAY (T)														T
	28	4	5	5	9	10	11	12	13	16	17	17	19	15	23
	5	2	1	2	2	4	2	6	6	2	2	4	1	2	2
1	x	a	a	a	x	x	x	x	x	x	x	x	x	x	x
2	a	a	a	a	x	x	x	x	x	x	x	x	x	x	x
3	x	a	x	x	a	x	x	x	a	x	x	x	a	x	a
4	x	a	x	x	x	x	a	a	x	x	x	x	x	x	a
5	x	a	a	a	x	x	x	x	x	x	x	x	x	x	a
6	x	a	x	x	x	x	x	x	a	a	x	x	x	x	x
7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	a
8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	a
9	x	a	a	a	x	x	x	x	x	x	x	x	x	x	x
10	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x
11	x	x	x	x	x	x	x	x	x	x	x	x	a	a	x
12	x	a	x	x	x	x	a	x	x	a	x	x	x	x	x
13	x	a	x	x	a	x	x	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
15	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x
16	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
18	a	a	a	a	a	x	x	x	a	x	x	x	a	x	x
19	a	a	a	a	x	x	x	x	a	x	x	x	x	x	x
20	x	a	x	x	x	x	x	x	x	a	x	x	a	x	a
21	x	a	x	x	x	x	x	x	x	x	x	x	a	a	x
22	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x
23	x	a	x	x	x	x	x	a	a	x	x	x	x	x	a
24	x	a	a	a	x	x	x	x	x	x	x	x	x	x	x
25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
26	x	a	a	a	x	x	x	x	x	x	x	x	a	a	x
27	x	x	x	x	x	x	x	x	x	x	x	x	a	a	x
28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
29	x	x	x	x	x	x	x	x	x	x	x	x	x	x	a
30	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x
31	x	x	x	x	x	x	x	x	a	a	x	x	x	x	x
32	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x
33	x	a	x	x	x	x	x	x	x	x	x	x	x	x	a
34	x	a	x	x	x	x	x	x	x	x	x	x	a	a	x
35	x	a	a	a	x	x	x	x	x	x	x	x	x	x	x

Sl. No.	MAY (T)			(T)											
	28	4	5	5	9	10	11	12	13	16	17	17	19	19	23
	5	2	1	2	2	4	2	6	6	2	2	4	1	2	2
36	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x
37	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
38	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
39	x	a	a	a	x	x	x	x	x	x	x	x	x	x	x
40	x	a	a	a	x	x	x	x	x	x	x	x	x	x	x
41	a	a	x	x	x	x	x	x	x	x	x	x	x	x	x
42	x	a	x	x	a	x	x	x	a	x	x	x	a	x	a
43	x	a	x	x	x	x	x	x	x	x	x	x	x	x	x
44	a	a	a	a	x	x	x	x	x	x	x	x	x	x	x
45	x	x	a	a	x	x	x	x	x	x	x	x	x	x	x
46	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x
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Sl. No.	T					JUNE									
	23	24	26	26	27	30	30	31	31	13	20	21	23	23	27
	4	4	1	2	2	2	3	1	2	2	2	4		2	2
1	x	x	a	x	x	x	x	x	x	a	x	x	x	x	x
2	x	x	x	x	x	a	a	x	x	x	x	x	x	x	x
3	a	a	a	a	a	a	a	a	a	a	x	x	x	x	x
4	a	x	a	a	a	x	x	a	a	a	x	x	x	x	x
5	x	x	x	x	x	x	x	x	x	x	a	x	x	x	x
6	x	x	x	x	a	x	x	a	a	a	x	x	x	x	x
7	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9	x	x	x	x	x	x	x	x	x	a	a	x	x	x	x
10	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x
11	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
12	x	x	x	x	a	x	x	x	x	a	x	x	x	x	x
13	x	a	a	a	x	a	a	a	a	a	a	a	a	a	a
14	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x
15	x	x	a	a	a	x	x	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
18	x	x	x	x	x	a	a	x	x	x	a	x	x	x	x
19	x	x	x	x	x	a	x	x	x	x	x	x	x	x	x
20	a	x	x	x	a	a	a	x	x	x	x	x	x	x	x
21	x	x	x	x	x	x	x	x	x	x	x	a	x	x	x
22	x	x	x	x	x	x	x	x	x	a	x	x	x	x	x
23	x	x	x	x	x	a	x	a	a	x	x	x	x	x	a
24	x	x	x	x	x	x	x	x	x	a	x	x	x	x	x
25	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x
26	x	x	x	x	a	x	x	x	a	x	x	x	a	x	x
27	x	x	x	x	x	x	x	a	a	x	x	x	x	x	a
28	x	x	a	a	x	x	x	x	x	x	x	x	x	x	a
29	a	x	x	x	x	a	a	a	a	x	x	x	x	x	x
30	x	x	x	x	x	x	x	x	x	a	x	x	x	x	x
31	x	x	a	a	a	x	x	a	a	x	x	x	x	x	x
32	x	x	x	x	x	a	a	x	x	a	x	x	x	x	x
33	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x
34	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x
35	x	x	x	x	x	x	x	x	x	a	x	x	x	x	x

Sl. No.	T	July									T				
	28	28	30	30	4	6	6	16	16	21	24				
	4	5	1	2	2	2	4	5	6	1	2				
1	x	x	x	x	x	x	x	x	x	x	x				
2	x	x	x	x	x	x	x	x	x	x	x				
3	x	x	x	x	x	x	x	x	x	a	a				
4	x	x	x	x	x	x	x	x	x	x	x				
5	x	x	x	x	x	x	x	x	x	x	x				
6	x	x	a	a	x	x	x	a	a	x	x				
7	x	x	x	x	x	x	x	x	x	x	x				
8	x	x	x	x	x	x	x	x	x	x	x				
9	x	x	x	x	x	x	x	x	x	x	x				
10	x	x	x	x	x	x	x	x	x	x	x				
11	x	x	x	x	x	x	x	x	x	x	x				
12	x	x	x	x	x	x	x	x	x	x	x				
13	a	a	a	a	a	a	a	a	a	a	a				
14	x	x	x	x	x	x	x	x	x	x	x				
15	x	x	x	x	x	x	x	x	x	x	x				
16	x	x	x	x	x	x	x	x	x	x	x				
17	a	a	x	x	a	x	x	x	x	x	x				
18	x	x	a	a	x	x	x	a	a	x	x				
19	x	x	x	x	x	x	x	x	x	x	x				
20	a	a	x	x	x	x	x	x	x	x	x				
21	x	a	a	a	x	x	x	x	x	x	x				
22	x	x	x	x	x	x	x	x	x	x	x				
23	x	x	x	x	x	x	x	x	x	x	x				
24	x	x	x	x	x	x	x	x	x	x	x				
25	x	x	x	x	x	a	x	x	x	x	x				
26	x	x	x	x	x	x	x	x	x	x	x				
27	x	x	x	x	x	a	x	x	x	x	x				
28	x	x	x	x	x	a	a	x	x	x	x				
29	a	a	x	x	x	x	x	x	x	a	a				
30	x	x	x	x	x	x	x	a	a	a	a				
31	x	x	x	x	a	x	x	a	a	x	x				
32	x	x	x	x	x	x	x	a	a	x	x				
33	x	x	x	x	x	x	x	a	a	x	x				
34	x	x	x	x	x	x	x	x	x	x	x				
35	x	x	x	x	x	x	x	x	x	x	x				

Sl. No.	T													T	
	23	24	26	26	27	30	30	31	31	B	20	21	23	23	27
	4	4	1	2	2	2	3	1	2	2	2	4	1	2	2
36	x	x	x	x	x	x	x	x	x	a	x	x	x	x	a
37	x	x	x	v	x	x	x	a	a	x	x	x	x	x	x
38	x	x	x	x	x	x	x	x	x	x	a	x	x	x	x
39	x	x	x	x	x	a	a	a	a	x	x	x	x	x	a
40	x	x	x	x	x	a	a	x	x	a	a	x	x	x	x
41	x	x	x	x	x	x	x	x	x	a	a	x	x	x	a
42	a	a	x	x	x	a	a	x	x	x	a	x	x	x	x
43	x	x	x	x	x	x	x	x	x	a	x	x	x	x	x
44	x	x	x	x	x	x	x	x	x	a	a	a	a	a	x
45	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
46	x	x	a	a	x	a	a	x	x	x	a	x	x	x	x
47															
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Sl. No.	T July										T
	28	28	30	30	4	6	6	16	16	21	21
	4	5	1	2	2	2	4	5	6	1	2
36	x	x	x	x	x	a	x	x	x	x	x
37	x	x	x	x	x	x	x	x	x	x	x
38	x	x	a	a	x	a	a	x	x	x	x
39	x	x	x	x	x	x	x	a	a	x	x
40	x	x	x	x	x	x	x	x	x	x	x
41	x	x	x	x	a	x	x	x	x	x	x
42	x	x	x	x	a	a	a	x	x	a	a
43	x	x	x	x	x	x	x	a	a	x	x
44	x	x	x	x	x	x	x	x	x	x	x
45	x	x	x	x	x	x	x	x	x	x	x
46	x	x	x	x	x	x	x	x	x	x	x
47											
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Remedial Class Attendance

Sl. No.	MAY					Safety									
	6	12	20	27	24	2	2	2	2	26					
	6	2	6	6	6	1	2	3	4	5	4				
1	a	x	x	x	x	a	a	a	a	a	x				
2	a	x	x	a	x	x	x	x	x	x	x				
3	a	x	x	a	x	a	a	a	a	a	x				
4	x	a	x	a	a	x	x	x	x	x	x				
5	x	x	x	x	x	x	x	x	x	x	x				
6	x	x	x	a	x	x	x	x	x	x	x				
7	x	x	x	x	a	x	x	x	x	x	x				
8	x	x	x	x	x	a	a	a	a	a	x				
9	x	x	x	a	x	x	x	x	x	x	x				
10	x	x	x	x	x	a	a	a	a	a	x				
11	x	x	x	x	x	-	-	-	-	-	x				
12	x	x	x	a	a	x	x	x	x	x	x				
13	a	x	x	x	a	a	a	a	a	a	a				
14	x	x	x	x	x	x	x	x	x	x	x				
15	x	a	x	a	a	x	x	x	x	x	x				
16	a	x	x	x	x	x	x	x	x	x	x				
17	x	x	x	x	x	x	x	x	x	x	x				
18	x	x	x	x	x	x	x	x	x	x	x				
19	a	x	a	x	x	a	a	a	a	a	x				
20	a	x	x	a	x	x	x	x	x	x	x				
21	a	x	x	a	a	a	a	a	a	a	x				
22	x	x	x	x	x	a	a	a	a	a	x				
23	x	a	x	x	x	a	a	a	a	a	x				
24	a	x	x	x	x	-	-	-	-	-	x				
25	x	x	x	x	x	-	-	-	-	-	x				
26	x	x	x	x	x	a	a	a	a	a	x				
27	x	x	x	x	x	x	x	x	x	x	x				
28	a	x	x	a	x	a	a	a	a	a	x				
29	x	x	x	x	x	x	x	x	x	x	x				
30	x	x	x	x	x	a	a	a	a	a	x				
31	x	x	x	a	x	x	x	x	x	x	x				
32	x	x	x	x	x	x	x	x	x	x	x				
33	x	x	a	x	x	x	x	x	x	x	x				
34	x	x	x	x	x	a	a	a	a	a	x				
35	x	x	x	x	x	x	x	x	x	x	x				

Remedial Class Attendance

Sl. No.	MAY					June/July									
	6	12	20	27	24	2	3	2	2	2	6				
	6	2	6	6	6	1	2	3	4	5	4				
36	x	x	x	x	x	x	x	x	x	x	x				
37	\	x	x	x	x	•	-	-	-	-	x				
38	\	x	x	x	x	-	-	-	-	-	x				
39	x	x	x	a	x	x	x	x	x	x	x				
40	a	x	x	x	x	a	a	a	a	a	x				
41	x	x	x	x	x	a	a	a	a	a	x				
42	x	x	x	x	x	x	x	x	x	x	x				
43	x	x	x	x	x	x	x	x	x	x	x				
44	x	x	x	a	a	x	x	x	x	x	x				
45	x	x	x	x	x	x	x	x	x	x	x				
46	x	a	x	x	x	x	x	x	x	x	x				
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Sl. No.	Register No.	Attendance		Test			Assignment			Sessional Marks				Remarks
		Total Present (60)	Attendance Percentage %	I 50	II (30)	III (30)	I (15)	II (15)	III	Attendance Marks (10)	Test Marks (25)	Assignment Marks (15)	Total (50)	
1	AAE21AU002	59	98	7	18	11.5	15	15		10	10	15	35	
2	AAE21AU003	58	96	36	31		15	15		10	16	15	41	
3	AAE21AU005	45	75		15	8	15	15		8	7	15	30	
4	AAE21CE001	52	87		20	12	15	15		9	11	15	35	
5	AAE21CE002	58	97	20	26		15	15		10	11	15	36	
6	AAE21CE003	56	93		30	6	15	15		10	10	15	35	
7	AAE21CE004	59	98	12.5	33		15	15		10	12	15	37	
8	AAE21CE006	60	100	23	14	9	15	15		10	10	15	35	
9	AAE21EC001	58	96	22	17		15	15		10	10	15	35	
10	AAE21EC002	58	96	12	18	10	15	15		10	10	15	35	
11	AAE21EC003	59	98	39	28		15	15		10	17	15	42	
12	AAE21EC004	55	92	9	16	12.5	15	15		10	10	15	35	
13	AAE21ME001	-	-	-	-	-	-			-	-	-	-	
14	AAE21ME002	59	98	14	30		15	15		10	11	15	36	
15	AAE21ME003	59	98	25	45		15	15		10	17	15	42	
16	AAE21ME006	59	98	27	31		15	15		10	15	15	40	
17	AAE21ME007	59	98	32	29		15	15		10	15	15	40	
18	AAE21ME009	50	83	6	21	13	15	15		9	11	15	35	
19	AAE21ME010	45	75	3	5	23	15	15		8	12	15	35	
20	AAE21ME011	52	87	7	13	15.5	15	15		9	11	15	35	
21	AAE20CS009	51	85	4	17	14	15	15		9	11	15	35	
22	AAE21CS001	57	95	16	0	14	15	15		10	10	15	35	
23	AAE21CS002	54	90	20	21	12	15	15		10	10	15	35	
24	AAE21CS003	59	98	43	44		15	15		10	22	15	47	
25	AAE21CS004	59	98	42	36		15	15		10	20	15	45	
26	AAE21CS005	52	87			22	15	15		9	11	15	35	
27	AAE21CS006	59	98	25	32		15	15		10	14	15	39	
28	AAE21CS007	52	87	31	35		15	15		9	16	15	40	
29	AAE21CS008	59	98	8	24	8	15	15		10	10	15	35	
30	AAE21CS009	55	92	26	29		15	15		10	13	15	38	
31	AAE21CS011	56	93	20	36		15	15		10	14	15	39	
32	AAE21CS012	58	97	28	29	·	15	15		10	14	15	39	
33	AAE21CS013	56	93	21		10	15	15		10	10	15	35	
34	AAE21CS014	57	95	18	21	11	15	15		10	10	15	35	
35	AAE21CS015	59	98	28	22		15	15		10	13	15	38	

Class Average
AU – 35.33
CE – 35.6
EC – 36.75
ME – 37.57

Sl.No.	Register No.	Attendance		Test			Assignment			Sessional Marks				Remarks
		Total Present	Attendance Percentage	I (50)	II (50)	III (25)	I (15)	II (15)	III	Attendance Marks (10)	Test Marks (25)	Assignment Marks (15)	Total (60)	
36	AAE21CS017	59	98	28	31		15	15		10	15	15	40	
37	AAE21CS018	60	100	49	45		15	15		10	24	15	49	
38	AAE21CS019	60	100	42	41		15	15		10	21	15	46	
39	AAE21CS021	53	88	35	26		15	15		9	15	15	39	
40	AAE21CS022	58	97	25	7	7.5	15	15		10	10	15	35	
41	AAE21CS023	45	75	17	7	17.5	15	15		8	12	15	35	
42	AAE21CS025	48	80	2	1	22	15	15		9	11	15	35	
43	AAE21CS026	58	97	17	26		15	15		10	11	15	36	
44	AAE21CS027	57	95	43	49		15	15		10	22	15	47	
45	AAE21CS028	59	98		42		15	15		10	11	15	36	
46	AAE21CSC29	59	98	32	30		15	15		10	16	15	41	
47														
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Class Average

CS - 38.80.

Continuous Assessment Test I Evaluation Analysis

Sl. No	Name	Question No.	1	2	3	4	5	6(a)	6(b)	7(a)	7(b)	8(a)	8(b)	9(a)	9(b)			Total Marks
		Max.Marks	4	4	4	4	4	8	7	8	7	8	7	8	7			
		CO No.	3	3	4	4	4	3	3	3	3	4	4	4	4			
		Level	1	2	2	3	3	2	2	2	2	3	3	3	3			(50)
1	AKSHATH BINU			4		0·5		05				2						7
2	ABNAF HAMZA		4	4	2	4		8	5			7	2	(4)				36
3	JAYAKRISHNAN K																	
4	AROMAL PRASAD																	
5	FATHIMA NIDA			1	3	2		8				3	3					20
6	GOVARDHAN N																	
7	NANDU SAJEEV			0·5		4								8				12·5
8	SURYA AR		4	3	1	2	2	0		1	4	3	3					23
9	AALIYA FATHIMA			1	2	2	2	5	3			(2)		7				22
10	ABDUL MANAF A A			2		2			4			2	2					12
11	AVIN RAMESH V		4	3	2	4		5	6		4	(6)		7	6			39
12	EMMANUEL SHAJI		1	2			1			1	4							9
13	ADITHYA SIVAN																	
14	ALAN GIGI		1	3	2	4	4											14
15	ARRASHAD AZEEZ		4	4	4	4	4						5					25
16	ARUN RAJ		4	4	4	4	4							7				27
17	JAIGOVIND K S		4	4	4	2	4	1.	6					7				32
18	MUHAMMED NISSAM		4	2														6
19	RASHIN M HABEEB			3														3
20	SANJU KRISHNA			4	1	1			1									7
21	FARHANA JALUDHEEN									2				2				4
22	ABINNATH A V		4	2	2				4				4					16
23	ALAMEEN ANSARI				2					3	4	7	4					20
24	ALAN JOSE		4	4	4	4	4			8	4	7	4					43
25	ALEENA BIJU		4	4	4	4	4			8	4	6	4					42
26	ALTHAF SHAJAHAN																	
27	AMARNATH M		1	3	4	4	4			1			8					25
28	ANGELO VT		1	4	4	4				3	4	6	5					31
29	ASHIQ RASHEED		1	3	1	2	.	.	1									8
30	ASWIN M		4	4	4	4			6			.	4					26
31	FATHIMA JESNA JALEEL		4	4		3				5	4							20
32	FATHIMA SABU			3	1	2	4	6	4			5	3	(1)				28
33	GOUTHAM JOSHY		3	3	1	4			4	(2)		(3)		7				21
34	GAYOSE THANKACHAN		4	3	1	4								6				18
35	GOKUL SURESH		4	4	2	1	1	4	4			5	3					28

Continuous Assessment Test I Evaluation Analysis

Sl. No	Name	Question No.	1	2	3	4	5	6(a)	6(b)	7(a)	7(b)	8(a)	8(b)	9(a)	9(b)			Total Marks
		Max.Marks	4	4	4	4	4	8	7	8	7	8	7	8	7			
		CO No.	3	3	4	4	4	3	3	3	3	4	4	4	4			
		Level	1	2	2	3	3	2	2	2	2	3	3	3	3			(50)
36	JOSON GEORGE		4	4	2	3	4	8					3					28
37	MAHIN ASSIS		4	4	4	4	4			8	7	7	7					49
38	MEENAKSHI MMADH		4	2	4	4	4	6	7	2		5	6					42
39	M. ROBIN RAZA		4	4	4	4	4	2	4			5	4					35
40	M. SHANIB		4	2		1		6	6					6				25
41	M. JASIR H		4		2	1						5	5					17
42	NILE ABRAHAM					1							1					2
43	RAIHANA AZEEZ			2	2	3	4					2	4					17
44	SHARMEEN TP		4	4	3	4		8	6			7	7					43
45	SOBHITH SIVAN																	
46	VRINDHA BABU		4	2	3	3	2	8	5			2	3					32
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Continuous Assessment Test II Evaluation Analysis

Sl.No	Name	Question No.	1	2	3	4	5	6(a)	6(b)	7(a)	7(b)	8(a)	8(b)	9(a)	9(b)			Total Marks (50)
		Max.Marks	4	4	4	4	4	8	7	8	7	8	7	8	7			
		CO No.	3	3	4	4	4	3	3	3	3	4	4	4	4			
		Level	3	1	1	1	1	3	3	3	3	2	3	1	3			
1	AKSHATH BINU		1			4	2	1		3	1	3	3					18
2	ASNAF HAMZA		1	4	2	4	1	6	4	8	1	2	7					31
3	JAYAKRISHNAN K		1	4	2		3	5										15
4	AROMAL PRASAD			1		2	4	3				7	3					20
5	FATHIMA NIDA			2	2	4	4		1	3		5	6	3	5			26
6	GOVARDHAN N		2		2	3	4	8		8		6	5					39
7	NANDHU SAJEEV		2		3	4	2	8	7	8	4	7	5					33
8	SURYA A R		2	2		1				5				4				14
9	ABLIYA FATHIMA		1	1	1	2		2		3		5	2	3	4			17
10	ABDUL MANAF AA					2		6						4	6			18
11	AVIN RAMESH V		1	4	2	3	3		4	7					6			28
12	EMMANUEL SHAJI					3	2					5	6					16
13	ADITHYA SIVAN																	
14	ALAN GIGI			4		4	4			3		8	7					30
15	ARRASHAD AZEEZ			4	4	4	4			7	7	8	7					45
16	ARUN RAJ					4	4			8		8	7					31
17	JAIGOVIND KS			3		3	4		5			8	6					29
18	MUHAMMED NISSAM					2	4	3				6	6					21
19	RASHIN M HABEEB					1				3					1			5
20	SANJU KRISHNA			1	0	2	1		3					3	3			13
21	FARHANA JALUDHEEN		2	2	2		3			3	1	4						17
22	ABINNATH A V																	0
23	ALAMEEN ANSARI		1	2	2		1	6	7			2						21
24	ALAN JOSE		4	4	4	4	4	8	6					6	6			44
25	ALEENA BIJU		3	4	4	2	3	3	7			4	6					36
26	ALTHAF SHAJAHAN																	
27	AMARNATH M		4	3	4	2	3		5	5		5	6					32
28	ANGELO VT		3	3	4	4	4	2	7					4	4			35
29	ASHIQ RASHEED		2	2	2	2	2			8	3	3		3				24
30	ASWIN M		1	2	2	2	3			8		5	3					29
31	FATHIMA JESNA		2	3	2	4	4	3	7			5	6					36
32	FATHIMA SABU		1	2	2	4	3	2	3			5	7	3	3			29
33	GAUTHAM JOSHY																	
34	GAYOSE THANKACHAN		1	1	3	4	2	2		4			4					21
35	GOKUL SURESH		1	1	3		2	2	7	3		3			2			22

Continuous Assessment Test II Evaluation Analysis

Sl.No	Name	Question No.	1	2	3	4	5	6(a)	6(b)	7(a)	7(b)	8(a)	8(b)	9(a)	9(b)			Total Marks
		Max.Marks	4	4	4	4	4	8	7	8	7	8	7	8	7			
		CO No.	3	3	4	4	4	3	3	3	3	4	4	4	4			
		Level	3	1	1	1	1	3	3	3	3	2	3	1	3			(50)
36	JOSON GEORGE		1		4	4	3			5		8	6					31
37	MAHIN ASSIS		1	4	4	4	4			8	5	8	7					45
38	MEENAKSHI M MADAN		2	3		4	4	6	7	8		8	7		4			41
39	M. RUBIN RAZA		4	1	4	3	4	2		8								26
40	M. SHANIB		1	2						4								7
41	M. JASIR H						3			3	1							7
42	NILE ABRAHAM			1														1
43	RAIHANA AZEEZ		2		2	4	3	1	1	4		5	4	4				26
44	SHARMEEN T P		4	4	4	3	4	8	7	(5)		8	7					49
45	SOBHITH SIVAN		3	4	4	4	4	8	6			7	2					42
46	VRINDHA BABU		1	1	2	2	4	6		(5)		7	7					30
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Continuous Assessment Test III Evaluation Analysis

Sl. No	Name	Question No.	1	2	3	4	5											Total Marks
		Max.Marks	5	5	5	5	5											
		CO No.	5	5	5	5	5											
		Level	3	3	3	3	3											25
1	AKSHATH BINU		2	3	4		2.5											11.5
2	ASNAF HAMZA																	-
3	JAYAKRISHNAN K		2		2	1	3											8
4	AROMAL PRASAD		3	3	3	3												12
5	FATHIMA NIDA																	-
6	GOVARDHAN N		1	2	3													6
7	NANDHU SAJEEV																	-
8	SURYA A R		3	2		3	1											9
9	ADLIYA FATHIMA																	-
10	ABDUL MANAF		3	4		2	1											10
11	AVIN RAMESH V																	-
12	EMMANUEL SHAJI		1.5	5		3.5	1.5											12.5
13	ADITHYA SIVAN																	-
14	ALAN GIBI																	-
15	ARRASHAD AZEEZ																	-
16	ARUN RAJ																	-
17	JAIGOVIND K S																	-
18	MUHAMMED NISSAM		3	5	5													13
19	RASHIN M HAREEB		5	5	5	5	3											23
20	SANJU KRISHNA		5	5	2.5	5												15.5
21	FARHANA JALUDHEEN		4	4	4	2												14
22	ABINNATH AV		4	4	4		2											14
23	ALAMEEN ANSARI		2	2	4		4											12
24	ALAN JOSE																	-
25	ALEENA BIJU																	-
26	ALTHAF SHAJAHAN		4	4	5	5	4											22
27	AMARNATH M																	-
28	ANGELO VT																	-
29	ASHIQ RASHEED		2	2	-	2	2											8
30	ASWIN M																	-
31	FATHIMA JESNA																	
32	FATHIMA SABU																	-
33	GAUTHAM JOSHY		2	3	3	2												10
34	GAYOSE THANKACHAN		3	3	1	1	3											11
35	GOKUL SURESH																	-

Continuous Assessment Test III Evaluation Analysis

Sl. No	Name																	Total Marks
		Question No.	1	2	3	4	5											
		Max.Marks	5	5	5	5	5											
		CO No.	5	5	5	5	5											
		Level	3	3	3	3	3											
36	JOSON GEORGE																	-
37	MAHIN ASSIS																	-
38	MEENAKSHI																	-
39	M. RUBIN RAZA																	-
40	M. SHANIB		2	2	1.5													7.5
41	M JASIR		5	5	5	2.5												17.5
42	NILE ABRAHAM		5	5	2	5	5											22
43	RAIHANA AZEEZ																	-
44	SHARMEEN T P																	-
45	SOBHITH SIVAN																	-
46	VRINDHA BABU.																	-
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Details of Assignments

No.	Date of Submission	Date of return after evaluation	Description
1.	27.05.2022.	01.06.2022.	Previous year QP (module 3 and 4).
2.	20.07.2022.	25.07.2022.	previous year QP (module 1).

Assignment Evaluation

Sl No	Name	Assignment I					Assignment II					Assignment III				
		CO No. : 3,4					CO No. : 1,2					CO No. :				
		Level : 1,2,3					Level : 1,2,3					Level :				
		Content & Accuracy	Format & Neatness	Timely Schedule	Ideas & Creativity	Total marks	Content & Accuracy	Format & Neatness	Timely Schedule	Ideas & Creativity	Total marks	Content & Accuracy	Format & Neatness	Timely Schedule	Ideas & Creativity	Total marks
1	AKSHATH BINU	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
2	AFNAF HAMZA	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
3	JAYAKRISHNAN K	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
4	AROMAL PRASAD	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
5	FATHIMA NIDA	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
6	GOVARDHAN N	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
7	NANDHU SAJEEV	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
8	SURYA AR	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
9	AALIYA FATHIMA	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
10	ABDUL MANAF A	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
11	AVIN RAMESH V	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
12	EMMANUEL SHAJI	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
13	ADITHYA SIVAN															
14	ALAN GIGI	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
15	ARRASHAD AZEEZ	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
16	ARUN RAJ	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
17	JAIGOVIND KS	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
18	M. NISSAM MR	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
19	RASHIN M HABEEB	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
20	SANJU KRISHNA	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
21	FARHANA JAWDHEEN	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
22	ABINNATH AV	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
23	ALAMEEN ANSARI	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
24	ALAN JOSE	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
25	ALEENA BIJU	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
26	ALTHAF SHAJAHAN	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
27	AMARNATH M	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
28	ANGELO VT	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
29	ASHIQ RASHEED	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
30	ASWIN M	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
31	FATHIMA JESNA JALEEL	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
32	FATHIMA SABU	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
33	GAUTHAM JOSHY	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
34	GAYOSE THANKACHAN	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
35	GOKUL SURESH	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					

Assignment Evaluation

Sl.No	Name	Assignment I					Assignment II					Assignment III				
		CO No. : 3, 4					CO No. : 1, 2					CO No. :				
		Level : 1, 2, 3					Level : 1, 2, 3					Level :				
		Content & Accuracy	Format & Neatness	Timely Schedule	Ideas & Creativity	Total marks	Content & Accuracy	Format & Neatness	Timely Schedule	Ideas & Creativity	Total marks	Content & Accuracy	Format & Neatness	Timely Schedule	Ideas & Creativity	Total marks
36	JOSON GEORGE	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
37	MAHIN ASSIS	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
38	MEENAKSHI M MADHU	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
39	M. RUBIN RAZA	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
40	M. SHANIB	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
41	M. JASIR H	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
42	NILE ABRAHAM	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
43	RAIHANA AZEEZ	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
44	SHARMEEN T P	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
45	SOBHITH SIVAN	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
46	VRINDHA BABU	10·5	1·5	1·5	1·5	15	10·5	1·5	1·5	1·5	15					
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Details of Tutorials

No.	Date	Description
1	28.04.2022	Previous year university QP solving (Sln of DE's)
2	28.04.2022	Previous year university QP solving (Variation of parameters)
3.	05.05.2022	Previous year QP Solving (Basic laplace transforms)
4	19.05.22	Previous year QP solving (Inverse)
5	26.05.22	Previous year QP Solving (convolution, DE)
6	30.06.22	Work done, path independence
7.	21.7.22	Stokes theorem

Details of Remedial Class

No.	Date	Topic	Sign of Faculty
1	6.05.2022	Differential equations solutions	
2.	12.05.2022	First Shifting property problems.	
3	20.05.2022	Solution of DE with Laplace transforms	
4.	27.05.2022	Inverse transforms	
5	24.05.22.	Inverse convolution	
6	02.07.2022	Fourier integrals and transforms	
7.	06.07.22.	Fourier transforms / Potential functions.	

MAT 102	VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS	CATEGORY	L	T	P	CREDIT	Year of Introduction
		BSC	3	1	0	4	2019

Preamble: This course introduces the concepts and applications of differentiation and integration of vector valued functions, differential equations, Laplace and Fourier Transforms. The objective of this course is to familiarize the prospective engineers with some advanced concepts and methods in Mathematics which include the Calculus of vector valued functions, ordinary differential equations and basic transforms such as Laplace and Fourier Transforms which are invaluable for any engineer's mathematical tool box. The topics treated in this course have applications in all branches of engineering.

Prerequisite: Calculus of single and multi variable functions.

Course Outcomes: After the completion of the course the student will be able to

CO 1	Compute the derivatives and line integrals of vector functions and learn their applications
CO 2	Evaluate surface and volume integrals and learn their inter-relations and applications.
CO 3	Solve homogeneous and non-homogeneous linear differential equation with constant coefficients
CO 4	Compute Laplace transform and apply them to solve ODEs arising in engineering
CO 5	Determine the Fourier transforms of functions and apply them to solve problems arising in engineering

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	1			1	2		2
CO 2	3	3	3	3	2	1			1	2		2
CO 3	3	3	3	3	2	1			1	2		2
CO 4	3	3	3	3	2	1			1	2		2
CO 5	3	3	3	3	2	1			1	2		2

Assessment Pattern

Bloom's Category	Continuous Assessment Tests		End Semester Examination (Marks)
	Test 1 (Marks	Test 2 (Marks)	
Remember	10	10	20
Understand	20	20	40
Apply	20	20	40
Analyse			
Evaluate			
Create			

Mark distribution

Total Marks	CIE (Marks)	ESE (Marks)	ESE Duration
150	50	100	3 hours

Continuous Internal Evaluation Pattern:

Attendance : 10 marks
Continuous Assessment Test (2 numbers) : 25 marks
Assignment/Quiz/Course project : 15 marks

Assignments: Assignment should include specific problems highlighting the applications of the methods introduced in this course in science and engineering.

End Semester Examination Pattern: There will be two parts; Part A and Part B. Part A contain 10 questions with 2 questions from each module, having 3 marks for each question. Students should answer all questions. Part B contains 2 questions from each module of which student should answer any one. Each question can have maximum 2 sub-divisions and carry 14 marks.

Course Level Assessment Questions

Course Outcome 1 (CO1): Compute the derivatives and line integrals of vector functions and learn their applications

1. How would you calculate the speed, velocity and acceleration at any instant of a particle moving in space whose position vector at time t is $\mathbf{r}(t)$?
2. Find the work done by the force field $F = (e^x - y^3)i + (\cos y + z^3)$on a particle that travels once around the unit circle centred at origin having radius 1.
3. When do you say that a vector field is conservative? What are the implications if a vector field is conservative?

Course Outcome 2 (CO2): Evaluate surface and volume integrals and learn their inter-relations and applications

1. Write any one application each of line integral, double integral and surface integral.
2. Use the divergence theorem to find the outward flux of the vector field $F(x, y, z) = zk$across the
$$x^2 + y^2 + z^2 = a^2$$
3. State Greens theorem. Use Green's theorem to express the area of a plane region bounded by a curve as a line integral.

Course Outcome 3 (CO3): Solve homogeneous and non-homogeneous linear differential equation with constant coefficients

1. If $y_1(x)$ and $y_2(x)$ are solutions of $y'' + py' + qy = 0$, where p, q are constants, show that

   $y_1(x) + y_2(x)$ is also a solution.

2. Solve the differential equation $y'' + y = 0.001x^2$ using method of undetermined coefficient.

3. Solve the differential equation of $y''' - 3y'' + 3y' - y = e^x - x - 1$.

Course Outcome 4 (CO4): Compute Laplace transform and apply them to solve ODEs arising in engineering

1. What is the inverse Laplace Transform of $(s) = \frac{3s-137}{s^2+2s+4}$?

2. Find Laplace Transform of Unit step function.

3. Solve the differential equation of $y'' + 9y = \delta\left(t - \frac{\pi}{2}\right)$? Given $y(0) = 2,\ y'(0) = 0$

Course Outcome 5(CO5): Determine the Fourier transforms of functions and apply them to solve problems arising in engineering

1. Find the Fourier integral representation of function defined by $f(x) = e^{-x}$ for $x > 0$ and $f(x) = 0$ for $x < 0$.

2. What are the conditions for the existence of Fourier Transform of a function $f(x)$?

3. Find the Fourier transform of $f(x) = 1$ for $|x| < 1$ and $f(x) = 0$ otherwise.

Model Question paper

QP CODE: PAGES:3

Reg No:_____

Name :_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY **FIRST SEMESTER B.TECH DEGREE EXAMINATION, MONTH & YEAR**

Course Code: MAT 182

Max. Marks: 100 **Duration: 3 Hours**

VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS

(2019-Scheme)

(Common to all branches)

PART A

(Answer all questions. Each question carries 3 marks)

1. Is the vector r where $r = xi + yj + zk$ conservative. Justify your answer.
2. State Greens theorem including all the required hypotheses
3. What is the outward flux of $F(x, y, z) = xi + yj + zk$ across any unit cube.
4. What is the relationship between Green's theorem and Stokes theorem?
5. Solve $y'' + 4y' + 2.5y = 0$
6. Does the function $y = C_1 \cos x + C_2 \sin x$ form a solution of $y'' + y = 0$?. Is it the general solution? Justify your answer.
7. Find the Laplace transform of $e^{-t} \sinh 4t$
8. Find the Laplace inverse transform of $\frac{1}{s\,(s^2+\omega^2)}$.
9. Given the Fourier transform $\frac{1}{\sqrt{2}} e^{-\frac{\omega^2}{4}}$ of $f(x) = e^{-x^2}$, find the Fourier transform of xe^{-x^2}
10. State the convolution theorem for Fourier transform

PART B

(Answer one full question from each module. Each full question carries 14 marks)

MODULE 1

11a) Prove that the force field $F = e^y i + xe^y j$ is conservative in the entire xy-plane

b) Use Greens theorem to find the area enclosed by the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$

12 a) Find the divergence of the vector field $F = \frac{c}{(x^2+y^2+z^2)^{3/2}}(xi + yj + zk)$

b) Find the work done by the force field $F(x, y, z) = xyi + yzj + xzk$ along C where

C is the curve $r(t) = ti + t^2 j + t^3 k$

MODULE II

13 a) Use divergence theorem to find the outward flux of the vector field

$F = 2xi + 3yj + z^3 k$ across the unit cube bounded by or $x = 0,\ y = 0, z = 0, x = 1, y = 1, z = 1$

b) Find the circulation of $F = (x - z)i + (y - x)j + (z - xy)k$ using Stokes theorem around the triangle with vertices $A(1,0,0)$, $B(0,2,0)$ and $C(0,0,1)$

14 a) Use divergence theorem to find the volume of the cylindrical solid bounded by $x^2 + 4x + y^2 = 7,\ z = -1,\ z = 4$, given the vector field $F = xi + yj + zk$ across surface of the cylinder

b) Use Stokes theorem to evaluate $\int_C F.dr$ where $F = x^2 i + 3xj - y^3 k$ where C is

the circle $x^2 + y^2 = 1$ in the xy- plane with counterclockwise orientation looking

down the positive z-axis

MODULE III

15 a) Solve $y'' + 4y' + 4y = x^2 + e^{-x}\cos x$

b) Solve $y''' - 3y'' + 3y' - y = e^x - x - 1$

16 a) Solve $y''' + 3y'' + 3y' + y = 30e^{-x}$ given $y(0) = 3, y'(0) = -3,\ y''(0) = -47$

b) Using method of variation of parameters, solve $y'' + y = sec\ x$

MODULE IV

17 a) Find the inverse Laplace transform of $F(s) = \frac{2(e^{-s} - e^{-3s})}{s^2 - 4}$

b) Solve the differential equation $y'' + 16y = 4\delta(t - 3\pi);\ y(0) = 2, y'(0) = 0$ using Laplace transform

18 a) Solve $y'' + 3y' + 2y = f(t)$ where $f(t) = 1$ for $0 < t < 1$ and $f(t) = 1$ for $t > 1$ using Laplace transform

b) Apply convolution theorem to find the Laplace inverse transform of $\frac{1}{s^2(s^2+\omega^2)}$

MODULE V

19 a) Find the Fourier cosine integral representation for $f(x) = e^{-kx}$ for $x > 0$ and $k > 0$ and hence evaluate $\int_0^\infty \frac{\cos wx}{k^2+w^2}$ the function

b) Does the Fourier sine transform $f(x) = x^{-1}\sin x$ for $0 < x < \infty$ exist? Justify your answer

20 a) Find the Fourier transform of $f(x) = |x|$ for $|x| < 1$ and $f(x) = 0$ otherwise

b) Find the Fourier cosine transform of $f(x) = e^{-ax}$ for $a > 0$

Syllabus

Module 1 (Calculus of vector functions)

(Text 1: Relevant topics from sections 12.1, 12.2, 12.6, 13.6, 15.1, 15.2, 15.3)

Vector valued function of single variable, derivative of vector function and geometrical interpretation, motion along a curve-velocity, speed and acceleration. Concept of scalar and vector fields , Gradient and its properties, directional derivative , divergence and curl, Line integrals of vector fields, work as line integral, Conservative vector fields , independence of path and potential function(results without proof),

Module 2 (Vector integral theorems)

(Text 1: Relevant topics from sections 15.4, 15.5, 15.6, 15.7, 15.8)

Green's theorem (for simply connected domains, without proof) and applications to evaluating line integrals and finding areas. Surface integrals over surfaces of the form $z = g(x, y)$, $y = g(x, z)$ or $x = g(y, z)$, Flux integrals over surfaces of the form $z = g(x, y)$, $y = g(x, z)$ or $x = g(y, z)$, divergence theorem (without proof) and its applications to finding flux integrals, Stokes' theorem (without proof) and its applications to finding line integrals of vector fields and work done.

Module- 3 (Ordinary differential equations)

(Text 2: Relevant topics from sections 2.1, 2.2, 2.5, 2.6, 2.7, 2.10, 3.1, 3.2, 3.3)

Homogenous linear differential equation of second order, superposition principle,general solution, homogenous linear ODEs with constant coefficients-general solution. Solution of Euler-Cauchy equations (second order only).Existence and uniqueness (without proof). Non homogenous linear ODEs-general solution, solution by the method of undetermined coefficients (for the right hand side of the form $x^n, e^{kx}, sinax, cosax, e^{kx}sinax e^{kx}cosax$ and their linear combinations), methods of variation of parameters. Solution of higher order equations-homogeneous and non-homogeneous with constant coefficient using method of undetermined coefficient.

Module- 4 (Laplace transforms)

(Text 2: Relevant topics from sections 6.1,6.2,6.3,6.4,6.5)

Laplace Transform and its inverse ,Existence theorem (without proof) , linearity,Laplace transform of basic functions, first shifting theorem, Laplace transform of derivatives and integrals, solution of differential equations using Laplace transform, Unit step function, Second shifting theorems. Dirac delta function and its Laplace transform, Solution of ordinary differential equation involving unit step function and Dirac delta functions. Convolution theorem(without proof)and its application to finding inverse Laplace transform of products of functions.

Module-5 (Fourier Tranforms)

(Text 2: Relevant topics from sections 11.7,11.8, 11.9)

Fourier integral representation, Fourier sine and cosine integrals. Fourier sine and cosine transforms, inverse sine and cosine transform. Fourier transform and inverse Fourier transform, basic properties. The Fourier transform of derivatives. Convolution theorem (without proof)

Text Books

1. H. Anton, I. Biven S.Davis, **"Calculus"**, Wiley, 10th edition, 2015.
2. Erwin Kreyszig, **"Advanced Engineering Mathematics"**, Wiley, 10th edition, 2015.

Reference Books

1. J. Stewart, Essential Calculus, Cengage, 2nd edition, 2017
2. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9 th Edition, Pearson,Reprint, 2002.
3. Peter O Neil, Advanced Engineering Mathematics, 7th Edition, Thomson, 2007.
4. Louis C Barret, C Ray Wylie, "Advanced Engineering Mathematics", Tata McGraw Hill, 6th edition, 2003.
5. VeerarajanT."Engineering Mathematics for first year", Tata McGraw - Hill, 2008.
6. B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, 36th edition , 2010.
7. Srimanta Pal, Subodh C. Bhunia, "Engineering Mathematics", Oxford University Press, 2015.
8. Ronald N. Bracewell, "The Fourier Transform and its Applications", McGraw – Hill International Editions, 2000.

Course Contents and Lecture Schedule

No	Topic	No. of Lectures
1	**Calculus of vector functions (9 hours)**	
1.1	Vector valued function of a scalar variable - derivative of vector valued function of scalar variable t-geometrical meaning	2
1.2	Motion along a curve-speed , velocity, acceleration	1
1.3	Gradient and its properties, directional derivative , divergent and curl	3
1.4	Line integrals with respect to arc length, line integrals of vector fields. Work done as line integral	2
1.5	Conservative vector field, independence of path, potential function	1
2	**Vector integral theorems(9 hours)**	
2.1	Green's theorem and it's applications	2
2.2	Surface integrals , flux integral and their evaluation	3
2.3	Divergence theorem and applications	2
2.4	Stokes theorem and applications	2
3	**Ordinary Differential Equations (9 hours)**	
3.1	Homogenous linear equation of second order, Superposition principle, general solution	1
3.2	Homogenous linear ODEs of second order with constant coefficients	2
3.3	Second order Euler-Cauchy equation	1
3.4	Non homogenous linear differential equations of second order with constant coefficient-solution by undetermined coefficients, variation of parameters.	3
3.5	Higher order equations with constant coefficients	2
4	**Laplace Transform (10 hours)**	
4.1	Laplace Transform , inverse Transform, Linearity, First shifting theorem, transform of basic functions	2
4.2	Transform of derivatives and integrals	1
4.3	Solution of Differential equations, Initial value problems by Laplace transform method.	2
4.4	Unit step function --- Second shifting theorem	2
4.5	Dirac Delta function and solution of ODE involving Dirac delta function	2
4.6	Convolution and related problems.	1
5	**Fourier Transform (8 hours)**	
5.1	Fourier integral representation	1
5.2	Fourier Cosine and Sine integrals and transforms	2
5.3	Complex Fourier integral representation, Fourier transform and its inverse transforms, basic properties	3
5.4	Fourier transform of derivatives, Convolution theorem	2

Year Calendar

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - March 2022 to August 2022

B.Tech S6/S4/S2, B.Arch S6/S4/S2, BHMCT S4/S2

Mar-22				Apr-22				May-22			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Tue	1	Maha Sivarathri		Fri	1		3	Sun	1	May Day	
Wed	2			Sat	2		4	Mon	2	Id-ul-Fitr	
Thu	3			Sun	3			Tue	3	First CC Meeting for B.Tech S6/S4/S2,B.Arch S2	26
Fri	4			Mon	4		5	Wed	4	Course Selection and Mapping Ends for BHMCT S4/S2, B.Arch S6/S4	27
Sat	5			Tue	5		6	Thu	5		28
Sun	6			Wed	6	Commencement of classes BHMCT S2	7	Fri	6		29
Mon	7			Thu	7	Commencement of classes B.Arch S6/S4	8	Sat	7		30
Tue	8			Fri	8		9	Sun	8		
Wed	9			Sat	9			Mon	9		31
Thu	10			Sun	10			Tue	10	Course Selection and Mapping Ends for B.Tech S4/S2,B.Arch S2	32
Fri	11			Mon	11		10	Wed	11		33
Sat	12			Tue	12	Commencement of classes B.Tech S6	11	Thu	12		34
Sun	13			Wed	13		12	Fri	13	First Series test to be completed BHMCT S4/S2, B.Arch S6/S4	35
Mon	14			Thu	14	Maundy Thursday		Sat	14		
Tue	15			Fri	15	Vishu/ Good Friday		Sun	15		
Wed	16			Sat	16		13	Mon	16		36
Thu	17			Sun	17			Tue	17		37
Fri	18			Mon	18	Commencement of classes B.Arch S2/B.Tech S2	14	Wed	18		38
Sat	19			Tue	19		15	Thu	19		39
Sun	20			Wed	20		16	Fri	20		40
Mon	21			Thu	21	Commencement of classes B.Tech S4	17	Sat	21		41
Tue	22			Fri	22		18	Sun	22		
Wed	23			Sat	23		19	Mon	23		42
Thu	24			Sun	24			Tue	24		43
Fri	25			Mon	25	First CC Meeting for BHMCT S4/S2, B.Arch S6/S4 Course Selection and Mapping Begins for B.Tech S6	20	Wed	25	Second CC Meeting for BHMCT S4/S2, B.Arch S6/S4 Exam Registration begins for BHMCT S4/S2, B.Arch S6/S4	44
Sat	26			Tue	26		21	Thu	26		45
Sun	27			Wed	27	Course Selection and Mapping Ends for B.Tech S6	22	Fri	27		46
Mon	28			Thu	28	Course Selection and Mapping Begins for BHMCT S4/S2, B.Arch S6/S4	23	Sat	28	First Series test to be completed for B.Tech S6/S4/S2,B.Arch S2 Exam Registration Ends for BHMCT S4/S2, B.Arch S6/S4	47
Tue	29			Fri	29		24	Sun	29		
Wed	30	Commencement of classes BHMCT S4	1	Sat	30	Course Selection and Mapping Begins for B.Tech S4/S2, B.Arch S2	25	Mon	30	Exam Registration begins for B.Tech S6/S4/S2,B.Arch S2	48
	31		2					Tue	31		49

"Education is not the learning of facts,
but the training of the mind to think."

-Albert Einstein

AL-AZHAR
COLLEGE OF ENGINEERING & TECHNOLOGY
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AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY.THODUPUZHA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PREFACE

Name of Faculty	: Banu Sumayya S
KTU ID	: KTU-F 39023
Designation	: Assistant Professor
Mobile number	: 8547123050
Mail-id	: banusumayyas99@gmail.com

Name of the subject	: Computer Organization and Architecture
Subject code	: CST 202
Year	: II
Semester	: IV
Academic Year	: 2021-22
Regulation	: 2019

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Prepared by
Banu Sumayya S

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Continuous Assessment Test I: June 2022

Sem : S4	Program : B.Tech CSE	Course Code : CST202	Total Marks : 50	Time : 1 30Hrs.
Course Name : Computer Organization and Architecture				

CO: Course Outcome no *Level: Revised Bloom's taxonomy level no. (1-6)*

PART A Answer all questions (4 marks each)			
Co:	**Level:**	**Question No:**	
1	1	1	Distinguish between big endian and little endian notations with figure?
2	1	2	Explain the classification of memory units in computer.
2	a:1 b:2	3	a) Describe auto increment and auto decrement mode with example. b) Briefly explain instruction execution phases.
2	2	4	Explain the operational concept in data transfer between memory and processor.
2	2	5	Explain one, two, three address instruction with example?
PART B			
3	a: 2 b: 2	6	a) Compare multiple bus and single bus organization. (3 Marks) b) Explain different addressing modes with example.(12Marks)
OR			
3	a: 1 b: 2	7	a) With the help of figure, what are the different buses connected to functional unit of computer? (3 Marks) b) Explain functional unit of computer with figure.(12 Marks)
3	a: 3 b: 2	8	a) Explain how a branching instruction is executed in case of adding 'n' numbers with help of figure. (10 Marks) b) Explain different types of register with help of figure? (5 Marks)
OR			
3	a: 3 b: 3	9	a) With the help of figure, explain single bus organization and its execution? (8 Marks) b) Write instruction sequence for C=A+B and explain it. (7 Marks)

*CO1: Recognize and express the relevance of basic components, I/O organization and pipelining schemes in a digital computer

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*CO2 Explain the types of memory systems and mapping functions used in memory systems *CO5: Outline features of microcontrollers and develop low level programs

*CO3: Demonstrate the control signals required for the execution of a given instruction

Bloom's Taxonomy Levels:

1. *Remember*
2. *Understand*
3. *Apply*
4. *Analyze*
5. *Evaluate*
6. *Create*

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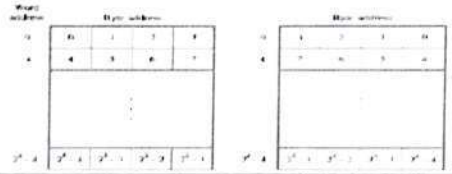
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Continuous Assessment Test1: January 2022

Scheme of Evaluation

Sem : S4	Program : B.Tech CSE	Course Code : CST202	Total Marks : 50	Time : 1 30Hrs.
Course Name : Computer Organization and Architecture				

CO: Course Outcome no *Level: Revised Bloom's taxonomy level no. (1-6)*

PART A					
Co :	Level:	Question No:	Points	Marks	Total Marks
1	1	1	There are two ways that byte addresses can be assigned across words. The name big-endian s used when lower byte addresses are used for the more significant bytes (the leftmost bytes) of ie word. The name little-endian is used for the opposite ordering, where the lower byte addresses re used for the less significant bytes (the rightmost bytes) of the word. In both cases, byte addresses 0, 4, and 8... are taken as the addresses of successive words i the memory of a computer with a 32-bit word length. These are the addresses used when ccessing the memory to store or retrieve a word. 	2 2	4
2	1	2	Classification of memory units :primary memory[RAM(SRAM,DRAM),ROM(PROM,EPROM,EEPROM)],secondary memory.		
2	a:1 b:2	3	3a)Definition and example 3b)Instruction fetch and instruction execute	2 2	
2	2	4	• Programs reside in the memory & usually get these through the input unit. • Execution of the program starts when the PC is set to point at the first instruction of the program. • Contents of PC are transferred to MAR and a Read Control Signal is sent to the memory. • The addressed word is read out of the memory and loaded into the MDR. • Now contents of MDR are transferred to the IR & now the instruction is ready to be decoded and executed. • If the instruction involves an operation by the ALU, it is necessary to obtain t required operands. • An operand in the memory is fetched by sending its address to MAR & Initiating a re cycle. • When the operand has been read from the memory to the MDR, it is transferred fr MDR to the ALU. • After one or two such repeated cycles, the ALU can perform the desired operation. • If the result of this operation is to be stored in the memory, the result is sent to MDI • Address of location where the result is stored is sent to MAR & a write cycle is initiat • The contents of PC are incremented so that PC points to the next instruction that is be executed.	4	

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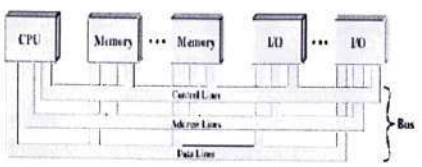
2	2	5	This instruction format consists of three addresses along with an operation field. The three addresses include the address of the first operand, address of the second operand, address to store the result. **Format**: Operation code Source1,source2, destination **Example**. Add A,B,C [C]← [A]+[B] **Two -address instruction format** This instruction format consists of two addresses along with an operation field. The two addresses include the address of the first operand, address of the second operand; the result is stored in one of the operand address. **Example**: Add A, B B← [A]+[B] **One -address instruction format** This instruction format consists of one address along with an operation field. The address is that of the first operand. The second operand and the result are stored in a CPU register called **accumulator**. A machine has only one accumulator; it need not be explicitly mentioned in the instruction. **Example**: Add A **Zero -address instruction format** A **stack** is included in the CPU for performing arithmetic and logic instructions with no addresses. The operands are pushed onto the stack from memory and ALU operations are implicitly performed on the top elements of the stack. **Example**: Add Top of stack = top of stack + second top of stack		
			PART B		
3	a: 2 b: 2	6	a) Any three comparisons b) Explanation The address generated by the CPU in-order to access the operand in the memory is term as an effective address. The methods used to provide an access path to operands in memo and CPU registers is addressing mode. Various addressing modes are • Immediate • Register • Direct(Absolute) • Indirect • Index (Displacement) • Base with index • Base with index and offset • Relative • Auto increment • Auto decrement	3 12	
			OR		
3	a:1 b:2	7	a) • **Data Bus**: It is used for transmission of data. The number of data lines corresponds to the number of bits in a word. • **Address Bus**: It carries the address of the main memory location from where the data can be accessed. • **Control Bus**: It is used to indicate the direction of data transfer and to coordinate the timing of events during the transfer.  b)	3	

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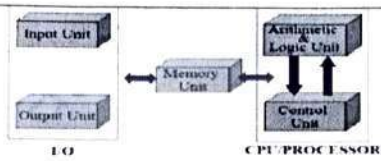
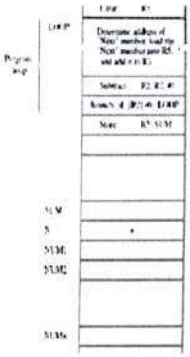
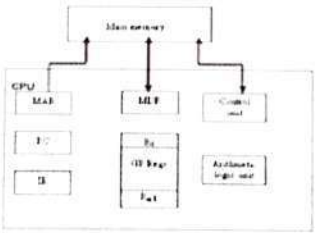


- Input Unit: Data/ instructions are fed to a computer through input unit
  Examples: keyboard, mouse, Scanner, joystick
- Arithmetic & Logic Unit: ALU consist of necessary logic circuits like add comparator etc., to perform arithmetic and logic operations such as additi multiplication, comparison of two numbers etc.
- Control Unit: Control unit co-ordinates activities of all units by issuing control signa Control signals issued by control unit govern the data transfers and then appropri operations take place. Control unit interprets or decides the operation/action to performed

3	a: 3 b: 2	8	a) Consider the task of adding a list of n numbers. Assume that the number of entries in the list, n, is stored in memory location N, as shown. Register R2 is used as a counter to determine the number of times the loop is executed. Hence, the contents of location N are loaded into register R2 at the beginning of the program. Then, within the body of the loop, the instruction Subtract R2, R2, #1 reduces the contents of R2 by 1 each time through the loop. Execution of the loop is repeated as long as the contents of R2 are greater than zero. We now introduce branch instructions. This type of instruction loads a new address into the program counter. As a result, the processor fetches and executes the instruction at this new address, called the branch target, instead of the instruction at the location that follows the branch instruction in sequential address order. A conditional branch instruction causes a branch only if a specified condition is satisfied. If the condition is not satisfied, the PC is incremented in the normal way, and the next instruction in sequential address order is fetched and executed  Figure 7 Using a loop to add n numbers b)  **Functions** • **Instruction Register(IR)**: contains the instruction that is being executed. Its output is available to the control circuits, that generate the timing signals for control of the actual processing circuits needed to execute the instruction. • **Program Counter(PC):** It contains the memory address of the next instruction to be fetched and executed • **Memory Address Register (MAR):** holds the address of the memory location to or from which data is to be transferred. • **Memory Data Register(MDR):** contains the data to be written into or read-out of the addressed memory location. • **General- purpose Registers:** are used for holding data, intermediate results of operations. They are also known as scratch-pad registers.	10	
			OR		
3	a: 3 b: 3	9	a)explanation figure b) Instruction sequence Explanation		

*CO1: Recognize and express the relevance of basic components, I/O organization and pipelining schemes in a digital compute

*CO2: Explain the types of memory systems and mapping functions used in memory systems

*co3: Demonstrate the control signals required for the execution of a given instruction

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9/6/2022

TUTORIAL - 1

Anjana Santhosh
CSO6

1) identify the following addressing modes

1) Move #500, R0 — immediate.
2) Add 4 (R0), R1 — index
3) Add #16, R0 — immediate.
4) Add 12 (R0), R3 — index
5) Move R1, SUM1 — combination of Register and direct Addressing
6) Add [R2][R0] — indirect
7) Move R5, R4. — direct
8) Sub (R1), R5 — autoincrement or autodecrement.
9) Add (-R1), R5 — autodecrement.

2) Write instruction sequence for ADD NUM, R1

1) PC out, MAR in, Read, Select 4, Add, Zin
2) Z out, PC in, Yin, WMFC
3) MDR out, IR in
4) R3 out, MAR in, Read
5) R1 out, Yin, WMFC
6) MDR out, Select y, Add Zin
7) Z out, R1 in, End

Remedial

3) Next instruction in the program counter has the address so Read the address using Memory address so add the address using Memory Address register select C, add the

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new address and store to z.

2) open the z and next instruction in PC and y is get the address we have known to wait for memory function complete.

3) we get the data MDR out and IR in to the current address.

4) R_3 out it has address so read address using MDR.

5) The R_1 out and Y in and wait for memory function complete we know the function is completed.

6) ~~MARI~~ MDR out because MAR read address has in data so MDR out and select Y and after function the result is added to z.

7) we open the z The data of z is set to R_1 end.

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Al Azhar College of Engineering and Technology,Thodupuzha

Department of Computer Science and Engineering

Course End Survey

Course Name: CSL 202 DIGITAL LAB

Semester : IV Academic Year:2021-22

After the completion of the course "CSL 202 Digital Lab" you will be able to-
(Please rate your understanding)

		0	1	2	3
1	Design and implement combinational logic circuits using Logic Gates.				✓
2	Design and implement sequential logic circuits using Integrated Circuits.				✓
3	Simulate functioning of digital circuits using programs written in a Hardware Description Language.				✓
4	Function effectively as an individual and in a team to accomplish a given task ofdesigning and implementing digital circuits				✓

Name of Student: Raiban Farhin

Register No. AAE20CS021

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Signature: Raiban

Al Azhar College of Engineering and Technology,Thodupuzha

Department of Computer Science and Engineering

Course End Survey

Course Name: CSL 202 DIGITAL LAB

Semester : IV

Academic Year:2021-22

After the completion of the course "CSL 202 Digital Lab" you will be able to-
(Please rate your understanding)

		0	1	2	3
1	Design and implement combinational logic circuits using Logic Gates.			✓	
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3	Simulate functioning of digital circuits using programs written in a Hardware Description Language.				✓
4	Function effectively as an individual and in a team to accomplish a given task ofdesigning and implementing digital circuits			✓	

Name of Student: Aliya fathima

Register No.

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Signature: aliya

Remedial

1) Next instruction in pc. program counter has the address so Read the address using memory address register Select Add the new address and store to Z

2) open the Z and next instruction in pc andy is get the adress we have know to wait for memory function Complete

3) we get the data MDR out and IR in to the current address

4) R_3 out it has address so read address using MAR

5) The R_1 out and Y in and wait for memory function complete we know the function is Completed

6) MDR out beacuse MAR read address has in data so MDRout and Select Y and after function the result is added to Z

7) Open then z the data of Z is Set to R_1 end.

Banu

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Suhu. G. Nath
CS 24.54

ASSIGNMENT

Coa

15/15

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By :
Thoufeek . S
S4 26
CSE

CONTENT - ADDRESSABLE MEMORY

Content addresable memory (CAM) is a data storage device, that stores memory in cells. When una aspect of one memory is entered, one CAM compares one input com all one stored data. It is a highspeed technology. In CAM memories are not arranged in chronolgical order and are not packed in isolated modules.

CAM is used in very high, speed searching app. It is also called associative memory, associative storage or associative array.

Features Of CAM:

1. It is used in one database Managment system
2. It is also called associative memory
3. CAM is expensive own RAM
4. CAM is suitable for parallel search
5. It return one list of data word address that was loaded.

Working of CAM:

1) Content - Addressable memory (CAM) is a specicon chip for umazingly quick yet unmistakable kind of memory quires.
2) Queares utilizing a CAM is theoretically like cooperative exhibit rationate in data structures yet one yield is very streamliner
3) At one point when one key is passed to a CAM substance work, it restore one related interine to that key Become a "key → essem" pair is made that be returned future.

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4. The most significant element is that a query of a section in a CAM can be performed in a solitons clock cycle in one silicon
5. A RAM module that requires various clock cycle to make a solitary memory brings a CAM cell in the chip that comprises two SRAM cells
6. SRAM requires broad silicon entry ways to actualize that require a great of interwins per door for quick exchanging
7. In a chip control utilization creates heat and prompts constrains on coam scantensy by the restricted impression of a chip.

Uses:

1. Whenever an address translation is needed use content addressable memory
2. Large priority of encodes will be replaced with one help let CAM's
3. It allows switching to forwcord copious floudines the trathic to all ports
4. It can be used as a search enquire

Advantages

1). CAM is accurate

2). In one doux, cycle, one input is associated to in there memory content. 5.

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AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY, THODUPUZHA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Continuous Assessment Test II: July 2022

Sem : S4	Program : B.Tech CSE	Course Code : CST202	Total Marks : 50	Time : 1 30Hrs.
Course Name : Computer Organization and Architecture				

CO: Course Outcome no *Level: Revised Bloom's taxonomy level no. (1-6)*

Co:	Level:	Question No:	
			PART A **Answer all questions (4 marks each)**
5	2	1	Describe Array processor with neat diagram.
6	1	2	Explain control organization in detail.
2	1	3	Discuss classification of memory.
4	2	4	Explain the design of status register and its function table.
6	1	5	Explain horizontal and vertical micro instruction in detail with example.
			PART B
5	3	6	a) Explain the restoring algorithm for binary division with flowchart and figure. Also trace the algorithm to divide (1000) by (11). (15 Marks)
			OR
5	2	7	a) Illustrate Booths algorithm with algorithm, flowchart and example. (15 Marks)
6	a:2 b:3	8	a) Explain the design of microprogram sequencer in detail.(6 Marks) b) Write control sequence and microinstruction for the instruction ADD(R3),R1.(9 Marks)
			OR
4	a: 2 b: 3	9	a) Explain the design of accumulator. (6 Marks) b) Design a 4-bit combinational logic shifter with 2 control signals H0 and H1 that perform the following operations (9 Marks)

H1	H0	Operation
0	0	Transfer 1's to all output line
0	1	No shift operation
1	0	Shift left
1	1	Shift right

***CO2: Explain the types of memory systems and mapping functions used in memory systems**
***CO3 : Demonstrate the control signals required for the execution of a given instruction**
***CO4: Illustrate the design of Arithmetic Logic Unit and explain the usage of registers in it**
***CO5: Explain the implementation aspects of arithmetic algorithms in a digital computer.**
***CO6: Develop the control logic for a given arithmetic problem**

Bloom's Taxonomy Levels:

1. *Remember*
2. *Understand*
3. *Apply*
4. *Analyze*
5. *Evaluate*
6. *Create*

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
S6 CSE (2019-2023 Batch)
FINAL INTERNAL MARK AND ATTENDANCE

Sl.No:	Register Number	Student Name	CST302		CST304		CST306		CST322		HUT300		CST308	CSL332		CSD334	
			Internal mark (50)	Attendance Percentage	Internal mark (50)	Attendance Percentage	Internal mark (50)	Attendance Percentage	Internal mark (50)	Attendance Percentage	Internal mark (50)	Attendance Percentage	Attendance Percentage	Internal mark (75)	Attendance Percentage	Internal mark (75)	Attendance Percentage
1	AAE19CS001	Alfiya Ali	35	80	36	80	35	88	35	81	37	77	90	62	100	57	81
2	AAE19CS002	Alina Thomas	35	95	40	93	35	84	36	97	39	83	90	67	100	58	94
3	AAE19CS003	Athira unnikrishnan	42	98	45	98	44	100	44	97	46	90	100	68	100	63	94
4	AAE19CS004	Busthana Sherin Ash	37	83	42	84	36	86	35	88	45	83	90	67	100	66	81
5	AAE19CS005	Karan Krishna Dines	35	82	35	79	35	86	35	81	39	72	90	68	90	65	88
6	AAE19CS006	Muhsina Pareeth	38	95	40	95	40	100	39	96	42	93	100	69	100	62	94
7	AAE19CS007	Sayyid Fayadh	35	83	37	87	35	80	35	85	42	77	100	67	100	58	81
8	AAE19CS008	Shifa Ahammed	41	95	40	95	35	96	40	96	44	88	100	67	100	65	88
9	AAE19CS009	Sithara Parvin	44	98	48	98	44	98	44	98	44	90	100	70	100	67	100

SL.NO	SUBJECT CODE	SUBJECT NAME	FACULTY	SIGNATURE
1	CST 302	COMPILER DESIGN	Anju Pathrose	
2	CST 304	COMPUTER GRAPHICS AND IMAGE PROCESSING	Asla M.P	
3	CST 306	ALGORITHM ANALYSIS AND DESIGN	Kala O.S	
4	CST 322	DATA ANALYTICS	Banu Sumayy	
5	HUT 300	INDUSTRIAL ECONOMICS AND FOREIGN TRADE	Bala Arun	
6	CST 308	COMPREHENSIVE COURSE WORK	Anju Pathrose	
7	CSL 332	NETWORKING LAB	Anju Pathrose	
8	CSD 334	MINI PROJECT	Kala O.S	

DEPT. OF COMPUTER SCIENCE & ENGINEERING AL-AZHAR CET THODUPUZHA

3/8/22

CLASS TUTOR HOD PRINCIPAL

AL-AZHAR COLLEGE OF ENGINEERING & TECHNOLOGY,THODUPUZHA

DEPARTMENT OF ECE

S7 ECE KTU

EC451 SEMINAR (EVALUATION SHEET)

TOTAL MARKS:50MARKS

REG.NO	NAME OF STUDENT	PRESENTATION (20)	ABILITY TO ANSWER QUESTIONS (15)	REPORT (15)	TOTAL MARKS (50)
AAE18EC001	FATHIMATHUL THASNI	12	5	13	30
AAE18EC002	SIRAJ MUHAMMED KHAN	13	5	13	31

CO-ORDINATOR

HOD

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AL-AZHAR COLLEGE OF ENGINEERING & TECHNOLOGY,THODUPUZHA

DEPARTMENT OF ECE

S7 ECE KTU (2018-2022)BATCH

EC 451 PROJECT PRELIMINARY

GROUP

SL.NO	NAME OF STUDENT	TOPIC
1	FATHIMATHUL THASNI	TWO WAY SAFETY AUTHENTICATION FOR VEHICLE
2	SIRAJ MUHAMMEDKHAN	

CO-ORDINATOR

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AL-AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY,THODUPUZHA

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EC451: PROJECT ASSESSMENT BOARD

Sl.No:	Faculty Name	Designation	Department	Signature
1	Harikrishnan M P	Assistant Professor	Electronics & Communication Engineering	
2	Neethu C T	Assistant Professor	Electronics & Communication Engineering	
3	Ashamol Joseph	Assistant Professor	Electronics and Communication engineering(Project supervisor)	

Project Supervisor: Ashamol Joseph

Signature :

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AL-AZHAR COLLEGE OF ENGINEERING & TECHNOLOGY,THODUPUZHA

DEPARTMENT OF ECE

EC451 PROJECT(EVALUATION SHEET)

S7 KTU ECE

TOTAL MARKS:50 MARKS

REG.NO	NAME OF STUDENT	PROGRESS EVALUATION I (25)	PROGRESS EVALUATION II (25)	TOTAL MARKS (50)
AAE18EC001	FATHIMATHUL THASNI	14	17	31
AAE18EC002	SIRAJ MUHAMMED KHAN	12	18	30

CO-ORDINATOR

HOD

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Perumpillichira P.O., Thodupuzha

DEPARTMENT OF CIVIL ENGINEERING

PROJECT TOPIC

SLOT	REGISTER NUMBER	NAME OF STUDENT	Topic	GUIDE
I	AAE18CE001	Anandha Krishnan P	ANALYSIS DESIGN AND DETAILING OF A COMMERCIAL BUILDING USING ETABS	Jojo John
	LAAE18CE002	Anugraha Prasad		
	AAE17CE006	Jeevan C Sunil		
	AAE17CE008	Mohammed Sharique Shaduman P		
II	LAAE18CE003	Shabana Shoukathali	COMPARATIVE STUDY ON THE EFFECT OF ALUMINIUM CHOPS V/S POLYVINYL CHLORIDE ON SOIL STABILIZATION	Blessy V R
	LAAE18CE004	Sharafiya Rasheed		
	AAE17CE011	Sreerag M P		
	AAE17CE012	Suseendran G		

Name of the staff : ROSEMARY SUNNY

Signature :

DEPARTMENT OF CIVIL ENGINEERING AL-AZHAR CET THODUPUZHA

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AL-AZHAR COLLEGE OF ENGINEERING & TECHNOLOGY

Perumpillichira P.O., Thodupuzha

DEPARTMENT OF CIVIL ENGINEERING

FINAL PROJECT EVALUATION TIME TABLE

SLOT	REGISTER NUMBER	NAME OF STUDENT	DATE	TIME
I	AAE18CE001	Anandha Krishnan P	5/7/2022	10:00AM-10:30AM
	LAAE18CE002	Anugraha Prasad		
	AAE17CE006	Jeevan C Sunil		
	AAE17CE008	Mohammed Sharique Shaduman P		
II	LAAE18CE003	Shabana Shoukathali	5/7/2022	10:30AM-11:00AM
	LAAE18CE004	Sharafiya Rasheed		
	AAE17CE011	Sreerag M P		
	AAE17CE012	Suseendran G		

COODINATOR

HOD: 5/7/22

PRINCIPAL:

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AL-AZHAR COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
FINAL PROJECT REVIEW- ATTENDANCE

SL NO:	REGISTER NUMBER	NAME OF STUDENT	SIGNATURE
1	AAE18CE001	Anandha Krishnan P	
2	LAAE18CE002	Anugraha Prasad	
3	LAAE18CE003	Shabana Shoukathali	
4	LAAE18CE004	Sharafiya Rasheed	
5	AAE17CE006	Jeevan C Sunil	
6	AAE17CE008	Mohammed Sharique Shaduman P	
7	AAE17CE011	Sreerag M P	
8	AAE17CE012	Suseendran G	

COORDINATOR:

DEPARTMENT OF CIVIL ENGINEERING AL-AZHAR CET THODUPUZHA

EXTERNAL EXAMINER:

HOD:

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AL-AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
CE 492: PROJECT
FINAL EVALUATION PANEL MEMBERS

SL.No:	FACULTY NAME	DESIGNATION	DEPARTMENT	SIGNATURE
1	RIYA SUSAN	HOD	CIVIL ENGINEERING, AACET (CHAIRMAN)	
2	AMMU THOMAS	Assistant Professor	CIVIL ENINEERING, MBITS (EXTERNAL EVALUATOR)	
3	BALA ARUN KB	Assistant Professor	MECHANICAL ENGINEERING,AACET	
4	JOJO JOHN	Assistant Professor	CIVIL ENGINEERING,AACET	
5	ROSEMARY SUNNY	Assistant Professor	CIVIL ENGINEERING,AACET	
6	BLESSY V R	Assistant Professor	CIVIL ENGINEERING,AACET	

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Perumpillichira P.O., Thodupuzha

DEPARTMENT OF CIVIL ENGINEERING

INTERNAL MARK

No.	REGISTER NUMBER	NAME OF STUDENT	REVIEW I	REVIEW II	AVG
1	AAE18CE001	Anandha Krishnan P	6.75	15	11
2	LAAE18CE002	Anugraha Prasad	11.5	19.5	16
3	LAAE18CE003	Shabana Shoukathali	6	14	10
4	LAAE18CE004	Sharafiya Rasheed	17	18.5	18
5	AAE17CE006	Jeevan C Sunil	5.75	14.5	10
6	AAE17CE008	Mohammed Sharique	7.25	14.75	11
7	AAE17CE011	Sreerag M P	14.5	16.5	16
8	AAE17CE012	Suseendran G	15.5	16.5	16

Name of the staff : Rosemary Sunny

SIGNATURE:

DEPARTMENT OF CIVIL ENGINEERING AL-AZHAR CET THODUPUZHA

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APJ Abdul Kalam Technological University
CET Campus, Thiruvananthapuram
Kerala -695016
India

AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY

Students Examination Eligibility Details

Academic Year : 2021 - 2022 **Degree Type : Regular**

Program : **Branch : CIVIL ENGINEERING** **Semester : S8**
B.Tech(Full Time)

Course Name : PROJECT-CE492 **Batch : 1**

Student	Attendance %, Internal Marks/20	Availed Leaves	Disc. Action	Eligible for Written Exam	Status	In-eligibility Type
JEEVAN C SUNIL Register No : AAE17CE006	Attendance : 78.0 Internals : 10.0/20	Long Leave : Duty Leave :		Yes	Submitted by college	
MOHAMMED SHARIQUE SHADUMAN. P Register No : AAE17CE008	Attendance : 80.0 Internals : 11.0/20	Long Leave : Duty Leave :		Yes	Submitted by college	
SREERAG. M.P Register No : AAE17CE011	Attendance : 80.0 Internals : 16.0/20	Long Leave : Duty Leave :		Yes	Submitted by college	
G SUSEENDRAN Register No : AAE17CE012	Attendance : 86.0 Internals : 16.0/20	Long Leave : Duty Leave :		Yes	Submitted by college	
ANANDHA KRISHNAN P Register No : AAE18CE001	Attendance : 83.0 Internals : 11.0/20	Long Leave : Duty Leave :		Yes	Submitted by college	

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Anugraha Prasad Register No : LAAE18CE002	Attendance : 85.0 Internals : 16.0/20	Long Leave : Duty Leave :		Yes	Submitted by college	
Shabana shoukathali Register No : LAAE18CE003	Attendance : 76.0 Internals : 10.0/20	Long Leave : Duty Leave :		Yes	Submitted by college	
Sharafiya Rasheed Register No : LAAE18CE004	Attendance : 96.0 Internals : 18.0/20	Long Leave : Duty Leave :		Yes	Submitted by college	

DEPARTMENT OF CIVIL ENGINEERING
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AL - AZHAR COLLEGE OF ENGINEERING & POLYTECHNIC
Perumpillichira , Thodupuzha, Idukki, Kerala 685605

CERTIFICATE OF PARTICIPATION

This Certificate is proudly presented to

Ms. Alfiya Ali

for successful participation in the seminar on
"Intrllectual Property Awareness Program for Engineering Students"
by
Al-Azhar Collage of Engineering & Technology on 11/05/2022

IQAC Coordinator

Principal
PRINCIPAL
Al-Azhar College of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STOCK REGISTER

DEPARTMENT LIBRARY

No	Acc No	Title	Author
1	CSD/DL/001	Computer System Architecture 3rd Edition	M. Morris Mano
2	CSD/DL/002	Computer Architecture & Organization 3rd Edition	John P Hayes
3.	CSD/DL/003	Computer Organization & Architecture	Dr Lalit K Anand, Anjali Anand
4.	CSD/DL/004	Data Structures using C	Udit Agrawal
5.	CSD/DL/005	Classic Data Structures	D Samanta
6.	CSD/DL/006	Introduction to Computer programming in C	S Jose
7.	CSD/DL/007	Computer programming	Dinesh Gupta
8.	CSD/DL/008	Introduction to computing & problem solving	B. Galebathullah, S. Kavitha
9.	CSD/DL/009	Hardware and software of Personal Computers	Sanjay K Bose
10	CSD/DL/010	Software Testing and Quality assurance	Dr. Rajiv Chopra
11	CSD/DL/011	An Introduction to Automata theory & formal languages	Adesh K Pandey
12.	CSD/DL/012	An Introduction to Automata theory & formal languages	Adesh K Pandey
13	CSD/DL/013	Cloud Computing	Ashish Bhatnagar, Shailza Sharma
14	CSD/DL/014	Data Communication & Computer networks	Dr. Sanjay Sharma
15	CSD/DL/015	Computer programming & Computational techniques	Dr. Sanjay Sharma
16	CSD/DL/016	Design & Engineering	S Jose, Subrata P George

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Al-Ameer College of Engineering & Technology

Publishers, place, year	No of copies	No of pages	Cost	Subject
Prentice Hall of India Pvt Ltd New Delhi, 2000	1	525	175	CSA
McGraw-Hill, 1998	1	604	514	COA
Katson Books New Delhi, 2014	1	322	225	COA
Katson Books New Delhi, 2010	1	558	325	OS
Prentice Hall of India New Delhi, 2006	1	470	225	OS
Pentagon Educational services, 2013	1	340	230	CP
Kalyani publishers New Delhi, 2012	1	271	160	CP
OWL Books, Trivandrum, 2015	1	158	180	ICPS
New Age international publishers, New Delhi 2014	1	244	199	HSPC
Katson Books, New Delhi, 2008	1	414	325	ST
Katson Books New Delhi, 2004	1	376	225	TOC
Katson Books, New Delhi 2004	1	376	225	TOC
Katson Books, New Delhi 2019	1	442	395	Cloud computing
Katson Books, New Delhi 2019	1	960	525	DC
Pentagon Educational services, 2018	1	50	100	CP
Pentex publishers 2016	1	178	110	Design Engg.

Page total : 4138

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Sno	Acc No	Title	Author
17	CSD/DL/017	Fundamentals of Biomedical Instrumentation	Dr. ON Pandey
18	CSD/DL/018	Metallurgy and material Science	Dr. S Jose Dr. E V Mathew
19	CSD/DL/019	Web Design Technology	D P Nagpal
20	CSD/DL/020	Data communication & Computer Networks	Dr. Sanjay sharma
21	CSD/DL/021	Computer programming & Numerical methods	S Jose
22.	CSD/DL/022	Fundamentals of Mobile Computing. 2nd Ed	Prasant kumar Pattnaik Rajib Mall
23.	CSD/DL/023	Mobile Computing	Dr. Sanjay Sharma
24.	CSD/DL/024	Data structures using C	Udit Agrawal
25	CSD/DL/025	Computer Graphics	Udit Agarwal
26.	CSD/DL/026	Introduction to Datastructures in C	Kannan Balakrishna Sumi Haridas Umesh Ram
27	CSD/DL/027	Programming in C	Prof P N George
28	CSD/DL/028	Operating Systems	Er. Rajiv Chopra
29	CSD/DL/029	Q solve	
30	CSD/DL/030	Design Analysis and Algorithms	Hari Mohan Pandey
31	CSD/DL/031	Data structures using C	Udit Agrawal

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Al-Ameen College of Engineering & Technology

Publisher, place, Year	No. of copies	No. of pages	Cost	Subject
Katson Books, NewDelhi 2002	1	352	265	Biomedical
Pentagon Edu Services 2011	1	400	190	Metallurgy
S Chand technical, 2013	1	876	350	Webdesign
Katson Books, Newdelhi 2015	1	960	525	DC & DM
Pentagon Edu Services 2018	1	394	350	CP
PHI learning pvt lmld, 2016	1	268	250	Mobile computing
Katson Books, 2014	1	556	525	Mobile computing
Katson Books, 2010	1	558	395	DS
Katson Books, 2009	1	468	295	CG
Spades publishers 2008	1	208	60	DS
	1		175	CP
S Chand technical, 2009	1	524	290	OS
EC Reference Books, 2019	1	475	270	Q solve
University science press, 2008	1	560	425	DAA
Katson Books, 2010	1	558	395	DS

Page total : 4760

PRINCIPAL
Bharathiar College of Engineering & Technology

Slno	Acc No.	Title	Author
32	CSD/DL/032	Design & Engineering	Arun Mohan, Rajesh Kumar
33	CSD/DL/033	"	"
34	CSD/DL/034	"	
35	CSD/DL/035	"	
36	CSD/DL/036	"	
37	CSD/DL/037	"	
38	CSD/DL/038	"	
39	CSD/DL/039	"	
40	CSD/DL/040	"	
41	CSD/DL/041	"	
42	CSD/DL/042	"	
43	CSD/DL/043	"	
44	CSD/DL/044	"	
45	CSD/DL/045	"	
46	CSD/DL/046	"	
47	CSD/DL/047	Design" & Engineering	Arun Mohan, Rajesh Kumar
48	CSD/DL/048	"	"
49	CSD/DL/049	"	"
50	CSD/DL/050	"	"
51	CSD/DL/051	"	"
52	CSD/DL/052	"	"
53	CSD/DL/053	"	"
54	CSD/DL/054	"	"
55	CSD/DL/055	"	"
56	CSD/DL/056	"	"
57	CSD/DL/057	"	"
58	CSD/DL/058	"	"
59	CSD/DL/059	Design & Engineering	Arun Mohan, Rajesh Kumar J
60	CSD/DL/060	"	"
61	CSD/DL/061	"	
62	CSD/DL/062	"	"
63	CSD/DL/063	"	"
64	CSD/DL/064	"	"

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Publisher, place, Year	No of copies	No of pages	Cost	Subject
Jyothis Publishers, 2015	1	178	160	DE
"	"	"	"	"
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Jyothis Publishers, 2015	1	178	160	DE
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"			"	
Jyothis Publishers, 2015	1	178	160	DE
"			160	
"			160	
"			160	
"			160	
"			160	
Page total :			5280	

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Sl no	Acc no	Title	Author
65	CSD/DL/065	Design & Engineering	Arun Mohan, Rajesh Kumar R
66	CSD/DL/066	Design & Engineering	"
67	CSD/DL/067	"	"
68	CSD/DL/068	Data Mining, Concepts & Techniques 2nd Edition (copy)	Jiawei Han & Micheline Kamber
69	CSD/DL/069	Software Design (copy)	
70	CSD/DL/0	Object-oriented Software Engineering Using UML, Patterns & Java	
71	CSD/DL/0	The essential Guide to User Interface Design (copy)	Wilbert O Galitz
72	CSD/DL/072	Artificial Neural Networks (copy)	B Yegnanarayana
73	CSD/DL/073	Principles of Management	Dr K K Vijayaraghavan Dr M Sivakumar
74	CSD/DL/074	Cryptography and Network Security	William Stallings
75	CSD/DL/075	Software Engineering and Project Management	R. Rubin
76	CSD/DL/076	Life Skills for Engineers	Ramesh S, Vishnu R.G
77.	CSD/DL/07.7	Computer Graphics	Udit Agarwal
78.	CSD/DL/078	Computer Programming and Computational Techniques (C++)	S-Jose
79.	CSD/DL/079 ~~080~~	Computer Architecture: A Quantitative Approach	John. L. Hennessy and David A. Patterson
80.	CSD/DL/080	Principles of Management	Dr. G.K. Vijayaraghavan Dr. M. Sivakumar
81.	CSD/DL/081	Principles of Management	Dr. S. Ramachandran R. Parameshwari Dr. G. Bhuvaneshwari
82.	CSD/DL/082	Microprocessor Architecture, Programming and applications with the 8085	Ramesh Gaonkar
83.	CSD/DL/083	The Intel Microprocessors Architecture, Programming & Interfacing 6th Edition	Barry B. Brey
84.	CSD/DL/084	Sun Certified Programmer for Java 5 SCJP, Exam Study Guide.	Kathy Sierra, Bert Bates.
85.	CSD/DL/085	Understanding Pointers in C	Yashavant Kanetkar

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Publisher, place, year	No. of copies	No. of pages	Cost	Subject
Jyothis Publishers, 2015	1	178	160	DE
"	1	178	160	DE
"	1	178	160	DE
Morgan Kaufmann publishers	1	351	250	DM (ML)
	1	500	450	SD.
PEARS Education	1	710	300	OOB
Wiley-dreamtech India Pvt.	1	760	310	GUI Design
Prentice-Hall of India Pvt.	1	460	275	ANN
Lakshmi Publications Chennai	1	500	210	POM
Pearson, 6th Edt	1	660	650	CNS
Lakshmi Publications, Chennai	1	406	190	SEPM
Ridhima Publications TVM	1	228	225	Life Skill
S.K. Kataria & Sons	1	472	285	CG
Pentagon Educational Services	1	413	350	CPCT (civil)
Elsevier	1	673	500	COA
Lakshmi Publications	1	410	210	POM
Airwalk Publications	1	280	125	POM
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105	CSD/DL/105	Microcontroller and applications	M.p.A Jaleel
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PTA MEETING- REGISTER

S4 (2020-24 Batch)

Purpose: PTA Meeting

Date: 2-7-2022
Venue: Seminar Hall

Agenda: Discussion about attendance & series marks.
Discipline in the campus and common matters.

Name and Signature of Attendees

1. Parents (list on the next side)
2. Kala O.S (HOD, CSE)
3. Banu Sumayya (class Tutor) Banu
4. Boby Jose (AP, CSE) Boby
5. Anju Pathrose (AP, CSE) Anju
6. Deniya Varghese (AP, CSE) Deniya

Summary of Proceedings:-

The meeting was started at 10:00 am with a silent prayer. All the above mentioned faculties and students along with their parents were present. HOD of CSE department, Mrs. Kala O.S presided the session.

Topics discussed are as follows:-

1) Parents and students were made aware that students having below 75% attendance are not eligible to write university exam. And if they have only less sessional mark, it will seriously affect their overall results.

So students are directed to attend the class regularly and study well.

2) Teachers expressed the concern of students using mobile phones inside the classroom.

Students are told to not bring mobile phones to campus. Parents are directed to monitor their children's phone activities.

Meeting came to an end at 11:00 am. Parents were directed to meet all the subject handling faculties before they leave.

PRINCIPAL
Akbarbar College of Engineering & Technology

for
Banu Sumayya
Class Advisor

Date: 2-7-2022
Saturday
i 71

Semester : 4

Sl.No	Name of student	Name of Parent	Signature	Remarks
1	Mohd Razin.	Rasheed.		
(2)	HIJAS	Ahamed Sageer		
(3)	Adityasuresh	Deepa.M.D		
4	Muhammed Aslam	Ashraf E.M.		
5.	Mohammed Ameen	Famitha		
6	Shahzad Ali	Shamshad Banu		
7.	~~Razin Rasi~~			
8.	Merin Varghese.	Varghese Thomas.		
9.	Aliya fathima	sbanosiya		
10.	Raiban Fathima	shahina v.m		
11.	Anjana Santhosh	Swapna Santhosh		
12.	Aliya E.S	Sunaina Sulaiman		
13.	Fathima Beevi	Saleena Beevi		

PRINCIPAL
Al-Azhar College of Engineering & Technology

To

Date:20/06/2022

Mr. THOMAS JOSEPH

Subject: Attendance and Series test marks enclosure,

പ്രിയരക്ഷാകർത്താവിനു,

കേരളാ ടെക്നോളോജിക്കൽ സർവകലാശാല നിയമപ്രകാരം എഞ്ചിനീയറിംഗ്വിദ്യാർത്ഥികൾക്ക് 2022ലെ സെമസ്റ്റർ പരീക്ഷ എഴുതുന്നതിനു 75% **ഹാജർനിലയും സീരീസ്പരീക്ഷക്ക്കുറഞ്ഞത്** (20 out of 50) മാർക്ക്കരസ്ഥമാക്കേണ്ടതും ആണ്. താങ്കളുടെ മകൻ/മകൾ ALINA THOMAS , JUNE 2022ൽ നടത്തിയ First സീരീസ്പരീക്ഷയ്ക്ക്നേടിയ മാർക്കും MAY 31 വരെ ഉള്ള ഹാജർ നിലവാരവും ചുവടെ ചേർക്കുന്നു.

Dear parent,

As per the Kerala Technological University your ward ALINA THOMAS of- Third Year Computer Science and Engineering, must secure minimum 75% attendance and minimum 20 marks for series examination out of 50 in each subject. The attendances and marks for the individual subjects are mentioned below.

Sl No	Subject	Attendance Percentage	Series Test 1 Mark(50)
1	CST 302 Compiler Design	89	22
2	CST 304 Computer Graphics and Image Processing	88	27
3	CST 306 Algorithm Analysis and Design	81	22
4	CST 322 Data Analytics	92	32
5	HUT 300 Industrial Economics and Foreign Trade	71	30

Group Advisor

HoD

PRINCIPAL
Al-Azhar College of Engineering & Technology

DEPT. OF COMPUTER SCIENCE & ENGINEERING
AL-AZHAR CET
THODUPUZHA