

Accredited by NAAC with B++ Grade, ISO 9001:2015 Certified Institution Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

FRESHMAN ENGINEERING DEPARTMENT

ATTAINMENT OF COURSE OUTCOMES

Faculty Name	:	Dr. K.R. Kavitha	Designation	:	Associate Professor
Course Name	:	Transformation Techniques and Vector Calculus	Academic Year	:	2019-20
Course Code	:	17FE06	Semester	:	II-Sem
Program & Admitted Year	:	B.Tech. 2019	Branch	:	CE

COURSE OUTCOMES:

After the completion of the course, the student should be able to

17FE06.CO1	:	Apply the concepts of Laplace Transforms to solve ordinary differential equations.
17FE06.CO2	:	Apply Z - Transforms to solve difference equations.
17FE06.CO3		Discriminate among Cartesian, Polar and Spherical coordinates in multiple integrals and their respective applications to areas and volumes.
- N	:	integrals and their respective applications to areas and volumes.
17FE06.CO4	:	Evaluate the directional derivative, divergence and angular velocity of a vector function.
17FE06.CO5	:	Apply Vector Integration for curves, surfaces and volumes and relationship among
		themselves.

1. Attainment of Course Outcomes through Mid Examinations:

		CIE Attainm	ent	Question-CO Articulation Matrix							
% Students Attempted			%Attainment	CO1	CO2	CO3	CO4	CO5			
ď.	Qla	72	62.8	0.75							
in.	Qlb	67	52.5	1							
	Qlc	50	63.34	1		1					
	Qld	42	60	1			-				
, ,	Q2a	50	43.34		0.75						
7	Q2b	55	36.37	*	1						
MID-I	Q2c	47	53.58		1			T i i			
	Q2d	40	41.67		1	17					
	Q3a	87	71.16	0.75		9 %					
	Q3b	78	48.94	1							
	Q3c	12	28.58		1						
	Q3d	8	80	Continue of the continue of th	1						
1	Qla	70	71.43	- Value Com		1					
	Q1b	67	80	122.00		1		2			
ш	Qlc	35	76.2		100 200	1					
0	Qld	35	85.72	1-2		0.75					
MID-II	Q2a	68	70.74				0.75				
	Q2b	65	69.24	W. V.			1				
	Q2c	37	77.28				1				

7	75	54.21	45.46	72.98	66.44 50.97
7	75				
			1		
					1
87	26.93				
28	88.24				1
	28 87	28 88.24 87 26.93	20	20	20

2. Attainment of Course Outcomes through Assignments:

	Assignment No / COs	CO1 (%)	CO2 (%)	CO3 (%)	CO4 (%)	CO5(%)
Assignment	A1	83.34				
nu	A2		96.67			
ssig	A3			98.34		
¥	A4				96.67	
	A5					93.34
Assignn	nent Attainment	83.34	96.67	98.34	96.67	93.34

3. Attainment of Course Outcomes through Quiz Examinations:

	.,	Quiz No / COs	CO1 (%)	CO2 (%)	CO3 (%)	CO4 (%)	CO5 (%)
	uiz	Q1	55.94	55.94			
	\diamond	O2			57.63	57.63	57.63
-	Quiz	Attainment	55.94	55.94	57.63	57.63	57.63

4. Attainment of Course Outcomes through Semester End Examinations (SEE):

	SEE Atta	inment (1)	Question-CO Articulation Matrix							
	% Students Attempted	%Attainment	CO1	CO2	CO3	CO4	CO5			
Qla	42	28	0.75							
Q1b	35	66.67	1							
Q2a	67	60	1							
Q2b	70	76.2	1	G 4 5			3 ()			
Q3a	10	16.67		1						
Q3b	10	33.34		0.75						
Q4a	77	52.18	Later May	0.75						
Q4b	60	44.45	1.25	1	200					
Q5a	48	48.28			1					
Q5b	48	62.07	A 8 E	(12-13)	0.75					
Q6a	60	41.67			0.75					
Q6b	58	34.29			1	2				
Q7a	83	40				1				
Q7b	77	56.53				1				
Q8a	10	16.67				0.75	1 1			
Q8b	15	44.45			N.	0.75				
Q9a	55	15.16	1				1			
Q9b		. 161 200			y law also also was		1			
Q10a	25	13.34					1			
Q10b	15	22.23					1			
7.00	SEE Attair		55.97	31.32	40.1	35.6	16.91			

Note: The final attainments of COs are determined according to the given weightage.

Online Quiz Examination + 5% of Assig Course Nan	ne with code : D	E&LA, 17F	E04		74 - 1
	Final CO Attains	nent	1-1-1		7.7
Assessment Tool/COs MID Attainment (%)	CO1	CO2	CO3	CO4	CO5
Assignment Attainment (%)	54	45	73	66	51
Quiz Attainment (%)	83	97	98	97	93
SEE Attainment (%)	56	56	58	58	58
Final CO. Att.:	56	31	40	36	17
Final COs Attainment (%) Target (%)	57	41	53	49	34
ranger (70)	65	65	65	65	65

A.Y. 2019-20 CE 17FE06 TTVC CO ATTAINMEN	FNT
--	-----

		Harris De lei 1951 1951		. vi . vivi L. (vi	
HE 120 100 80 60 40 20 0	CO1 26 83 83 83 83 83 83 83 83 83 83 83 83 83	CO3 24 26 27 26 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	58 58 98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200 X 8	12 13 15 15 15 15 15 15 15 15 15 15 15 15 15
■MID Attainment	54	45	CO3	CO4	COS
Assignment Attainment	83	97	98	66 6-	51
■ Quiz Attainment	56	56	58	58	93 58
SEE Attainment	56	31	40	36	1-
# COs Attamment # Target	57	41	5,3	40	34
= 1 arger	65	65	65	05	65

Course Instructors

K. R. Kavitha

0

(

Dr. K.R. Kavitha

Course Coordinator

Module Coordinator

Dr. A. Rami Reddy

HOD

Dr. A. Rami Reddy



Accredited by NAAC with B++ Grade, ISO 9001:2015 Certified Institution Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

FRESHMAN GIVIL ENGINEERING DEPARTMENT Analysis of examination results/605

Program: 1 B.Tech., Sem. II, CE

A.Y.: 2019-20

Course: 17FE06 Transformation Techniques and Vector Calculus

COURSE EDUCATIONAL OBJECTIVES (CEOs): In this course the students are introduced to Integral transformations which include Laplace Transforms and Z – Transforms. They will also learn Multiple Integrals in different coordinate systems and Vector Calculus.

COURSE OUTCOMES (COs)

After completion of the course, the student will be able to

CO1	Apply the concepts of Laplace Transforms to solve ordinary differential equations.
CO2	Apply Z - Transforms to solve difference equations.
CO3	Discriminate among Cartesian, Polar and Spherical coordinates in multiple integrals and their respective applications to areas and volumes.
CO4	Evaluate the directional derivative, divergence and angular velocity of a vector function.
CO5	Apply Vector Integration for curves, surfaces and volumes and relationship among themselves.

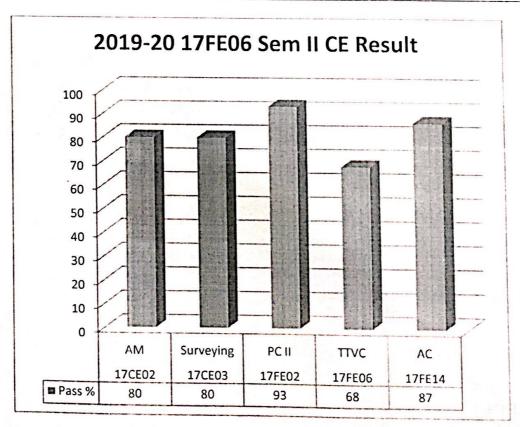


Fig. 1: Result Analysis of B.Tech. Sem II CE Course wise

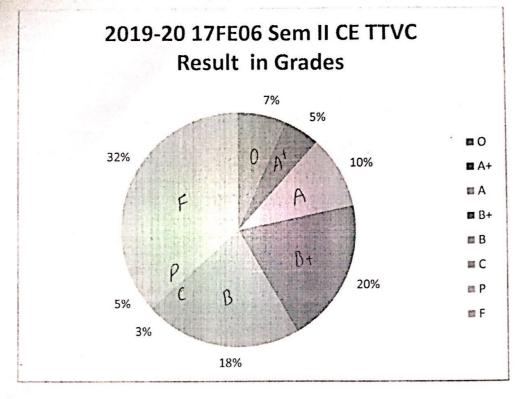


Fig. 2: Representation of grades through examinations

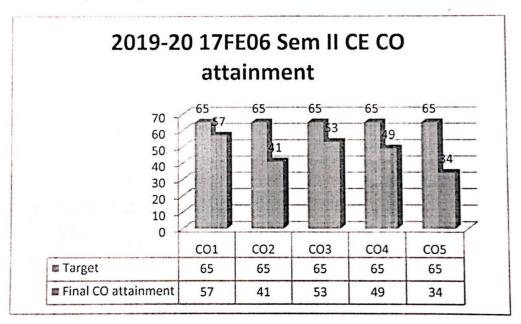
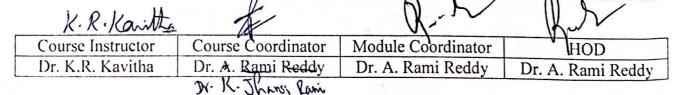


Fig. 3: Representation of COs through examinations

Action Suggested/Recommendations

- 1. Real examples should be given to create interest in the topic.
- 2. Students should be counselled and more questions to be given for practise
- 3. More number of assignment questions should be given in Vector related topics.
- 4. GATE related problems are to be discussed to involve the students more enthusiastically in the course





(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India
FRESHMAN ENGINEERING DEPARTMENT

CIRCULAR

04.01.2021

The Program Assessment Committee meeting of the department is convened on 06.01.2021 at 03:10 PM in English language lab. The members are requested to kindly make it convenient to attend the meeting.

Agenda:

- 1. Result analysis of previous year Courses (after revaluation) -A.Y.2019-20.
- 2. CO Attainment of previous Semester subjects.
- 3. PO attainments and action taken reports for I year for R-17 Regulation in the A.Y.2019-20.

H.o.D.

Copy to: All the members of PAC

PAC Members:

1. Chairman - Dr. A. Rami Reddy

2. Programme coordinator - Dr. B. Samrajya Lakshmi

Members

1. Dr. V. Parvathi

2. Dr. S. Yusub V

3. Dr. K. R. Kavitha

4. Dr. Shaheda Niloufer

5. Dr. K. Jhansi Rani

6. Dr. P. V. N. Kishore

7. Dr. V. Pawel

8. Dr. S. L. V. Rajesh Babu





Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME) Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

FRESHMAN ENGINEERING DEPARTMENT MINUTES OF PAC MEETING HELD ON 06-01-2021

The HoD welcomed the members of the PAC, and the meeting is declared open at 03:10 PM.

1. Result analysis of previous year Courses (after revaluation) -A.Y.2019-20

It is observed the average pass percentage of R17 students in the academic year 2019-20 in all the

The pass percentage for TTVC subject in CE and EIE is less. To improve the result in the next academic year remedial classes are to be arranged to backlog students. The drop in result is due to lack of fundamentals and practice among students. Students may be asked to solve more problems in the classes. Identification of slow learners and fast learners is done through mid-semester analysis,

Applied physics: Pass percentage of AP is observed to be less in EIE. The members of the PAC discussed the actions to be taken and they are forwarded to the DAC.

2. CO Attainment of previous Semester subjects.

The attainment of the even semester courses in the Academic Year 2019-20 is put forward for discussion. It is observed that the average CO attainments for few CO's has not been reached in the courses PC-II, TTVC. The recommendations/measures to be taken for the improvement in level of CO are provided and are accepted. These recommendations will be forwarded to the concerned faculty through module coordinators and the discussions are forwarded to DAC.

3. PO attainments and action taken reports for First year for R-17 Regulation.

Action taken reports were discussed at length in PAC. Some of PO values have reached the target. It is observed that the POs which are mapped with most of the theory courses have reached the target. The attainments values of some of the POs are less which are mapped with laboratory courses. Some recommendations for further improvement of the program were made.

The discussions are forwarded to DAC members.

The HoD thanked all the members on their active participation and the meeting is closed at 4:10 PM.

PAC Members:

1. Chairman - Dr. A. Rami Reddy

2. Programme coordinator - Dr. B. Samrajya Lakshmi

Members

1. Dr. V. Parvathi

2. Dr. S. Yusub

3. Dr. K. R. Kavitha

4. Dr. Shaheda Niloufer 5. Dr. K. Jhansi Rani

6. Dr. P. V. N. Kishord

7. Dr. V. Pawel

8. Dr. S. L. V. Rajesh Babu



Accredited by NAAC with B++ Grade, ISO 9001:2015 Certified Institution
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

FRESHMAN ENGINEERING DEPARTMENT

A.Y. 2019-20 SEM II CO ATTAINMENTS in 1/2

CODE	COURSE	COURSE	COURSE OUTCOMES	TARGET	2019-20 AVERAGE /, ATTAINMENT	ASE	CIVIL	MECH	CSI	E IT	EIE	EEI /	E ECE ン
	17FE02.1	Communication II	Use appropriate vocabulary to interpret data thoroughly and to write reports effectively.	65	59	64	56	55	62	59	50	65	64
0.02	17FE02.2	un m m	Face any situation with confidence and voice opinions/decisions assertively.	65	77	81	69	71	68	82	64	91	87
17FE02	17FE02.3		Use English Language effectively in spoken and written forms.	65	61	70	46	57	66	65	52	74	61
	17FE02.4	Professional	Work effectively in teams for better result.	65	62	64	55	52	66	67	37	85	70
	17FE02.5	Prof	Communicate effectively using verbal and non-verbal dimensions aptly.	65	62	63	58	55	65	66	48	72	67
	17FE06.1	iniques Ius	Apply the concepts of Laplace Transforms to solve ordinary differential equations.	60	65	67	57	54	75	71	60	59	73
903	17FE06.2	Tech Calcu	Apply Z - Transforms to solve difference equations	60	59	64	46	46	75	67	56	53	66
17FE06	17FE06.3	orma d Vect	Discriminate among Cartesian, Polar and Spherical coordinates in multiple integrals and their respective applications to areas and volumes	60	58	55	53	52	72	37	50	50	67
	17FE06.4	E d	Evaluate the directional derivative, ivergence and angular velocity of a	60	61	63	54	47	75	88	56 5	54	70

CODE	COURSE CODE	COURSE	COURSE OUTCOMES	TARGET	2019-20 AVERAGE ATTAINMENT	ASE	CIVIL	месн	CSE	IT	EIE	EEE	ECE
			vector function.						-				-
	17FE06.5		Apply Vector Integration for curves, surfaces and volumes and relationship among themselves.	60	42	30	28	30	58	48	32.000	41	66
17FE12	17FE12.1		Define the nature of Interference and Diffraction.	60	73				77	69		-	70
	17FE12.2	ysics	Describe the polarization and LASER, types of lasers and their applications.	60	72				74	67			73
	17FE12.3	Applied Physics	Estimate the electrical conductivity in metals.	60	73				77	70		-	74
_	17FE12.4		Design the circuits of semiconductor diodes, LED, Photodiode, Solar cell.	60	71				74				71
	17FE12.5		Classify the different types of polarisations in dielectric materials.	60	68				70	68	8 67	7	68
17FE14	17FE14.1		Identify the troubles due to hardness of water and its maintenance in Industrial applications.	60	64	68	62	63				6	1
	17FE14.2	Applied Chemistry	Analyze issues related to conventional fuels and apply the concepts of advanced fuels like bio, nuclear and rocket fuels in energy production.	60	63	5	8 66	61				6	57
	17FE14.3	Applied	Analyse different types of electrodes and batteries for technological applications.	60	61	6	60 60	o 65	5			6	50
	17FE14.	1	Apply principles of corrosion for design and effective maintenance of	60	56		52 6	1 5	1			6	61

CODE	COURSE CODE	COURSE	COURSE OUTCOMES	TARGET	2019-20 AVERAGE ATTAINMENT	ASE	CIVIL	месн	CSE	IT	EIE	EEE	ECE
			various equipments.										-
	17FE14.5		Identify the important applications of engineering materials like plastics, rubbers and lubricants.	60	61	54	67	60				64	
17FE60	17FE60.1	uo	Articulate English with good pronunciation.	80	89				90	92	84		89
	17FE60.2	Englis Communic Skills L	Manage skilfully through group discussions.	80	89				90	92	84		89
	17FE60.3		Communicate with the people effectively.	80	89				90	92	84		89
	17FE60.4		Collect and interpret data aptly.	80	89				90	92			89
	17FE62.1	Phy:	Analyze the wave characteristics of light.	70	66				73	74	51		67
17FE62	17FE62.2		Estimate the wave length and width of the slit with lazer light source.	70	71				74	75	71		65
17F	17FE62.3		Analyze the characteristics of semi conductor Diodes.	70	69				72	70	63		70
	17FE62.4		Determine the energy band gap and the Dielectric constant of a material.	70	68				72	75	59		66
17FE64	17FE64.1	Applied Chemistry Lab	Estimate various parameters of water which decide the quality based on the procedures given.	60	75	75	75	75				76	
	17FE64.2	App	Distinguish different types of titrations in quantitative analysis and acquire practical knowledge to prepare	60	75	76	75	75				75	

C	CODE	COURSE CODE	COURSE	COURSE OUTCOMES	TARGET	2019-20 AVERAGE ATTAINMENT		CIVIL	месн	CSE	IT	EIE	EEE	ECE
				polymers.										
		17FE64.3		Improve skills in report writing, individual and team work with ethical values.	60	92	94	97	87				89	

Head of the Department