





6.5.2 REVIEW ON TEACHING-LEARNING PROCESS &

REFORMS FACILITATED BY IQAC



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REVIEW PROCESS: I TLP FEEDBACK BY STUDENTS



STUDENT FEEDBACK ON TLP (SPA)



KINGS

(NAAC Accredited Institution)
(Approved by AICTE, New Delhi, Affiliated to
Anno University, Chennoi)



ACADEMIC YEAR 2019 – 2020 /EVEN SEMESTER

STAFF PERFORMANCE APPRAISAL

DATE: 03.02.2020

We are planning to conduct Staff Appraisal on 07.02.20 & 08.02.20 for this academic year 2019-2020(EVEN semester) through online feedback collection System. The respective class coordinators and hour handling staffs from all the departments are asked to assemble and monitor the students to the venue as per the schedule given below.

<u>CIVIL</u>

S.no	Date & Time	Department	Venue
1.	08.02.2020 & 10.00 am to 10.20 am	IV CIVIL	CSE LAB I
2.	07.02.2020 & 10.00 am to 10.20 am	III CIVIL	CSE LAB I
3.	07.02.2020 & 10.20 am to 10.45 am	II CIVIL	CSE LAB I

CSE

S.no	Date & Time	Department	Venue
1.	08.02.2020 & 11.45 am to 12.10 am	IV CSE	CSE LAB 1
2.	07.02.2020 & 11.00 am to 11.20 am	III CSE	CSE LAB I
3.	07.02.2020 & 11.20 am to 11.45 am	II CSE	CSE LAB I

<u>ECE</u>

S.no	Date & Time	Department	Venue
1.	08.02.2020	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CSE LAB I
	10.20 am to 10.50 am	IV ECE	CSE END I
2.	07.02.2020 & 11.45 am to 12.10 pm	III ECE	CSE LAB I
3.	07.02.2020 & 12.10 pm to 12.30 pm	II ECE	CSE LAB I

<u>EEE</u>

S.no	Date & Time	Department	Venue
1.	08.02.2020 & 11.00 am to 11.20 am	IV EEE	CSE LAB I
2.	07.02.2020 &	III EEE	CSE LAB I
3.	1.15 pm to 1.35 pm	II EEE	CSE LAB I

MECH

S.no	Date & Time	Department	Venue
1.	08.02.2020	IV MECH A	CSE LAB I
2.	& 11.20 am to 11.45 am	IV MECH B	CSE LAB II
3.	07.02.2020 & 1.35 pm to 2.00 pm	III MECH	CSE LAB I
4.	07.02.2020 & 2.00 pm to 2.30 pm	II MECH	CSE LAB I

COORDINATOR

(Mr. R.Sriramkumar)

T. 1864 13/2/2020
PRINCIPAL

Note: All the students must participate in online feedback process without absent.







ACADEMIC YEAR 2019 - 2020 (EVEN SEMESTER)

QUESTIONNAIRE FOR STAFF PERFORMANCE APPRAISAL

QUESTION BASED ON THEORY

- 1. Staff is well prepared for class and deliver the subject content well.
- 2. Staff provides activities that make subject matter meaningful.
- 3. Staff is flexible in offering individual student needs.
- 4. Staff is punctual to the class and punctual in returning the corrected papers.
- 5. Staff encourages students to ask questions in the class.
- 6. Staff conveys current information/related practices to the subject often.
- 7. Staff controls the classroom for effective teaching learning process.
- 8. Staff completes syllabus of the course in time.
- 9. Handwritten notes given by the staff is useful.
- 10. Staff discusses important key points in a topic.

QUESTION BASED ON PRACTICAL

- 1. Procedure of experiments explained clearly.
- 2. Support provided during lab sessions for completing experiments.
- 3. Session stimulates expansion of knowledge / Skill.
- 4. Opportunity for questions and discussions.
- 5. Quality and Condition of lab components.

COORDINATOR

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Anna University, Chennai)

DEPARTMENT OF CIVIL ENGINEERING STAFF PERFORMANCE APPRAISAL: 2019-2020 (EVEN SEM) DEPARTMENT WISE CONSOLIDATED REPORT

S.NO	STAFF NAME	SUBJECT CODE	THEORY / LAB	YEAR/ SEM/DEPT	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	TOTAL (100)
1.	Ms.R.REVATHI	CE6021	T1	IV/VIII/CIVIL	88.6	88.1	87.0	88.1	89.2	87.6	84.9	88.1	87.6	89.2	87.84
		CE6811	L1	IV/VIII/CIVIL	90.3	83.2	81.1	84.9	81.6						84.22
2.	Mr.R.SUNDHARAM	CE8005	T1	III/VI/CIVIL	87.1	88.6	90.0	90.7	86.4	84.3	88.6	90.0	85.0	86.4	87.71
		CE8612	L1	III/VI/CIVIL	87.9	89.3	89.3	86.4	87.9	"					88.14
3.	Mr.K.ARUN	CE6016	Т1	IV/VIII/CIVIL	93.5	93.5	93.0	93.5	95.7	92.4	94.6	96.2	91.4	91.9	93.57
		CE6811	L1	IV/VIII/CIVIL	90.3	83.2	81.1	84.9	81.6						84.22
4.	Ms.T.BHUVANESWARI	CE8602	T1	III/VI/CIVIL	87.1	85.0	79.3	87.1	80.7	78.6	84.3	86.4	87.1	84.3	84.00
5.	Mr.K.RANJITH	CE8603	T1	III/VI/CIVIL	77.9	77.1	76.4	77.9	80.0	77.9	79.3	81.4	75.7	77.1	78.07
		CE8481	L1	II/IV/CIVIL	89.5	92.6	92.6	90.5	90.5						91.16
6.	Mr.S.R.ELWIN GURU CHANTH	CE8401	Т1	II/IV/CIVIL	93.7	92.6	92.6	87.4	90.5	89.5	89.5	91.6	88.4	87.4	90.32
	CHANTII	CE8611	L1	III/VI/CIVIL	81.4	82.1	78.6	75.0	70.0						77.43
7.	Ms.K.BHAVAROHINI	CE8404	T1	II/IV/CIVIL	87.4	89.5	85.3	86.3	88.4	83.2	83.2	84.2	87.4	88.4	86.32
		CE8461	T 1	II/IV/CIVIL	96.8	93.7	94.7	95.8	87.4						93.68
8.	Ms.M.PRIYA	CE8491	T1	II/IV/CIVIL	91.6	91.6	94.7	94.7	92.6	86.3	90.5	93.7	94.7	93.7	92.42
		CE8601	Т2	III/VI/CIVIL	83.6	82.9	83.6	87.9	82.1	85.0	86.4	90.7	87.9	81.4	85.14
		CE8481	L1	II/IV/CIVIL	89.5	92.6	92.6	90.5	90.5				•		91.16
9.	Ms.K.JEYASHANKARI	CE8402	T1	II/IV/CIVIL	91.6	93.7	91.6	95.8	94.7	89.5	91.6	95.8	94.7	92.6	93.16
		CE8604	T2	III/VI/CIVIL	92.1	87.1	86.4	87.9	87.9	82.9	85.0	88.6	88.6	89.3	87.57
		CE8611	L1	III/VI/CIVIL	81.4	82.1	78.6	75.0	70.0		•				77.43

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10.	Mr.S.KAMARAJ	CE8461	<u>``'1'1</u>	II/IV/CIVIL	96.8	93.7	94.7	95.8'	87.4						93.68
11.	Ms.V.ISHWARYA	CE8403	T1	II/IV/CIVIL	91.6	89.5	90.5	90.5	90.5	87.4	85.3	91.6	92.6	88.4	89.79
		EN8592	T2	III/VI/CIVIL	87.1	87.1	87.9	88.6	84.3	84.3	82.9	84.3	84.3	85.0	85.57
		CE8612	L1	III/VI/CIVIL	87.9	89.3	89.3	86.4	87.9						88.14

COORDINATOR

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PRINCIPAL







DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING STAFF PERFORMANCE APPRAISAL: 2019-2020 (EVEN SEM) DEPARTMENT WISE CONSOLIDATED REPORT

S.NO	STAFF NAME	SUBJECT CODE	THEORY/ LAB	YEAR/ SEM/DEPT	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	TOTAL (100)
1.	Dr.S.M.UMA	CS8601	T1	III/VI/CSE	78.6	73.3	74.3	74.8	75.2	78.1	78.6	75.2	76.7	77.1	76.19
		CS8493	Т1	II/IV/CSE	88.5	86.5	87	91	88	88.5	87	86.5	87.5	84	87.45
2.	Ms.K.ABHIRAMI	CS6811	L1	IV/VIII/CSE	80.0	78.3	78.3	75.6	75.6		<u>.</u>	L,			77.56
	Ms.S.PUVANESWARI	CS8691	T1	III/VI/CSE	89.0	85.7	82.9	85.7	81.9	83.3	82.4	81.4	81.4	82.4	83.62
3.	WS.S.FOVANESWARI	CS8661	L1	III/VI/CSE	94.3	91.9	91.9	91.4	88.1						91.52
	M- D CANCELMIA	CS8603	T1	III/VI/CSE	81.4	79.5	78.1	77.1	77.1	80.5	78.1	79.5	78.6	76.7	78.67
4.	Ms.B.SANGEETHA	CS8662	L1	III/VI/CSE	83.8	82.4	83.3	82.4	82.9					·	82.95
5.	Mr.K.RAJESH	IT8076	T1	III/VI/CSE	81.0	79.5	77.6	78.6	76.2	76.7	77.1	77.1	77.1	79.0	78.00
-		CS8651	T1	III/VI/CSE	96.7	96.7	98.1	97.6	95.7	97.1	97.1	97.1	96.7	97.6	97.05
6.	Mr.R.RANITHA	CS8661	L1	III/VI/CSE	94.3	91.9	91.9	91.4	88.1			<u> </u>	l		91.52
	M. C.D.HADAHAN	IT6011	Т1	IV/VIII/CSE	81.7	81.1	79.4	81.1	80.6	81.7	80.6	83.3	78.3	79.4	80.72
7.	Mr.S.RAJARAJAN	CS8461	L1	II/IV/CSE	78.5	80	76	73.5	70			1.			75.6
		CS8494	Т1	II/IV/CSE	90.5	88.5	89.5	90	88.5	91	91	93.5	86.5	88.5	89.75
8.	Mr.D.SIVAKUMAR	CS8461	L1	II/IV/CSE	78.5	80	76	73.5	70				I	•	75.6
	N. D.VALAVINI	CS8491	T1	II/IV/CSE	70.5	68	71.5	77.5	69.5	63	69	77	66.5	64	<u>69.65</u>
9.	Ms.P.NALAYINI	CS6801	T2	IV/VIII/CSE	74.4	73.3	72.8	75.6	77.8	75.0	78.3	78.9	75.6	77.2	75.89

	Ms.R.SUGANTHA	CS8492	—(— T1	II/IV/CSE	89.5	88.5	87	87.5	85	84	89.5	88.5	84	79.5	86.3
10.	LAKSHMI	CS8481	L1	11/1V/CSE	89	85.5	84.5	82	76				•		83.4
		MG6088	T1	IV/VIII/CSE	83.3	81.7	81.1	80.6	81.7	80.0	78.9	80.6	81.1	81.7	81.06
11.	Mr.R.SRIRAMKUMAR	CS8481	L1	II/IV/CSE	89	85.5	84.5	82	76						83.4
!		CS8662	L2	III/VI/CSE	83.8	82.4	83.3	82.4	82.9						82.95
12.	Ms.G.CHANDRAPRABHA	CS8602	T 1	III/VI/CSE	87.6	84.3	85.7	86.7	85.2	82.9	83.3	85.2	83.3	83.3	84.76
	M. M. ADIM	CS8451	T1	II/IV/CSE	88.5	89.5	88	91	86.5	91	91.5	91	90.5	87	89.45
13.	Mr.M.ARUN	CS8611	L1	III/VI/CSE	79.5	75.7	75.2	76.2	76.2						76.57

COORDINATOR

PRINCIPAL







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING STAFF PERFORMANCE APPRAISAL: 2019-2020 (EVEN SEM) DEPARTMENT WISE CONSOLIDATED REPORT

S.NO	STAFF NAME	SUBJECT CODE	THEORY / LAB	YEAR/ SEM/DEPT	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	TOTAL (100)
	Dr.T.SHANTHI	EC6802	T1	IV/VIII/ECE	89.8	88.4	84.2	84.2	87.0	87.4	83.7	87.4	84.7	86.0	86.28
1.	DI.I.SHANTHI	EC8611	L1	III/VI/ECE	86.3	86.3	83.4	85.7	86.3		•				85.60
2.	Ms.N.MANGAIYARKARASI	EC8002	T1	III/VI/ECE	94.3	94.3	93.7	96.0	93.1	93.1	96.6	97.1	95.4	96.6	95.03
۷.		EC8462	L1	II/IV/ECE	82.0	81.3	78.7	76.7	66.0		***********		········		76.93
	Mr.K.SUDARSANAN	EE8451	T1	II/IV/EEE	94	90	94	92	94	88	90	92	90	92	91.6
3.	MI.R.SUDARSAIVAN	EE8461	L1	II/IV/EEE	92	92	96	94	92						93.2
	Mar C D AM AD AIANI	EC8491	T1	II/IV/ECE	91.3	90.0	88.0	94.0	87.3	90.0	88.0	89.3	90.0	88.7	89.67
4.	Mr.S.RAMARAJAN	EC8461	L1	II/IV/ECE	89.3	84.7	82.7	83.3	66.0						81.20
	Mr.R.SATHYARAJ	EC8652	T1	III/VI/ECE	94.3	92.6	91.4	94.9	92.6	92.0	96.0	97.1	95.4	90.9	93.71
5.	,	EC8681	L1	III/VI/ECE	92.0	93.1	92.6	90.3	85.7				•	,	90.74
	Mr.T.JEYASEELAN	EC8095	T1	III/VI/ECE	98.3	98.9	97.1	98.3	97.1	96.0	91.4	94.3	98.3	96.0	96.57
6.		EC8661	L1	III/VI/ECE	94.9	96.0	95.4	95.4	94.9						95.31
	Mr.P.RAJAPIRIAN	EC8691	T 1	III/VI/ECE	84.6	85.1	88.6	87.4	88.6	85.1	82.3	82.9	84.6	84.6	85.37
7.		EC8681	L1	III/VI/ECE	92.0	93.1	92.6	90.3	85.7						90.74

			*												
	Mr.A.HERALD	EC8453	T1	II/IV/ECE	85.3	82.7	82.7	84.7	85.3	85.3	85.3	84.7	84.0	80.7	84.07
8.		EC8462	L1	II/IV/ECE	82.0	81.3	78.7	76.7	66.0		'				76.93
9.	Mr.R.BALAKRISHNAN	EC8651	T1	III/VI/ECE	95.4	92.0	93.1	90.9	93.7	89.7	93.7	92.6	91.4	94.9	92.74
		EC6801	T1	IV/VIII/ECE	91.2	90.2	88.4	91.6	88.4	87.9	91.2	91.6	92.1	92.1	90.47
10.	Ms.R.PONNI	EC8661	L1	III/VI/ECE	95.31	95.31	95.31	95.31	95.31				'	1	95.31
		EE8681	L1	III/VI/EEE	89.2	86.2	89.2	92.3	87.7						88.92
	Ms.D.VENNILA	EC6019	T1	IV/VIII/ECE	99.5	97.7	98.1	99.5	98.1	97.2	99.5	99.0	99.1	99.5	98.74
11.	MS.D. VENNILA	EE8681	L1	III/VI/EEE	89.2	86.2	89.2	92.3	87.7			<u> </u>		'	88.92
12.	Ms.P.THIRUMAGAL	EC8451	T1	II/IV/ECE	86.0	86.7	87.3	92.0	90.0	83.3	88.7	88.7	86.0	85.3	87.40
	Ms.U.JEYAMALAR	EC8452	Т1	II/IV/ECE	61.3	60.7	62.0	72.0	70.0	64.0	64.7	66.0	59.3	60.7	64.07
13.	WS.O.JETAWALAN	EC8461	L1	II/IV/ECE	89.3	84.7	82.7	83.3	66.0				<u> </u>		81.20
·	Mr.R.THANDAYUTHAPANI	EC6018	T1	IV/VIII/ECE	89.8	87.3	87.9	89.5	89.8	87.4	88.8	87.0	87.1	88.4	88.30
14.	MIT.K. I HANDATO I HAPANI	EC6811	L1	IV/VIII/ECE	87.0	87.9	86.5	87.0	81.9		<u>, ,</u>				86.05

COORDINATOR

PRINCIPAL







DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING STAFF PERFORMANCE APPRAISAL; 2019-2020 (EVEN SEM) DEPARTMENT WISE CONSOLIDATED REPORT

S.NO	STAFF NAME	SUBJECT CODE	THEORY / LAB	YEAR/ SEM/DEPT	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	TOTAL (100)
1.	Dr.S.SIVAKUMAR	EE8002	T1	III/VI/EEE	100.0	100.0	98.5	100.0	98.5	98.5	98.5	100.0	100.0	98.5	99.23
2.	Dr.A.ALBERT MARTIN RUBAN	EE8602	T1	III/VI/EEE	95.4	92.3	95.4	93.8	96.9	92.3	96.9	96.9	87.7	92.3	94.00
		EE8601	T1	III/VI/EEE	100	100	98.5	98.5	100	100	98.5	100	98.5	100	99.38
3.	Mr.R.SUNDARAMOORTHI	EE8412	L1	II/IV/EEE	94	96	92	96	94						94.4
		EE6811	L2	IV/VIII/EEE	98.2	98.2	98.2	100.0	96.4				-	, -	98.18
4.	Mr.S.R.KARTHIKEYAN	IC8451	T1	II/IV/EEE	98	94	96	98	96	96	96	98	96	94	96.2
	Ms.N.RAJESWARI	EE6801	T1	IV/VIII/EEE	74.5	83.6	81.8	80.0	72.7	74.5	80.0	80.0	81.8	80.0	78.91
5.	Promiting	EE8611	L1	III/VI/EEE	89.2	87.7	83.1	84.6	93.8						87.69
	Mr.J.AROKIARAJ	EE8005	T1	III/VI/EEE	92.3	89.2	92.3	90.8	90.8	93.8	92.3	92.3	90.8	93.8	91.85
6.	MI.J.AKOKIAICA)	EE8661	L1	III/VI/EEE	89.2	89.2	87.7	92.3	93.8						90.46
7.	Mr.S.SAKTHIVEL	EE8403	T1	II/IV/EEE	100	100	100	100	100	96	94	96	96	98	98
8.	Dr.M.MEENALOCHANI	EE8691	T1	III/VI/EEE	100.0	93.8	96.9	96.9	92.3	98.5	89.2	100.0	96.9	96.9	96.15
9.	Mrs.N.ARULMOZHI	EE8402	T1	II/IV/EEE	90	82	90	86	90	92	90	90	92	90	89.2
		EE8401	T1	II/IV/EEE	94	94	92	96	98	96	94	94	92	94	94.4
10.	Mr.C.JOHN SELVARAJ	EE6009	Т2	IV/VIII/EEE	94.5	96.4	94.5	90.9	92.7	92.7	96.4	94.5	92.7	94.5	94.00
		EE8411	L1	II/IV/EEE	94	98	92	94	88						93.2

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DEPARTMENT OF MECHANICAL ENGINEERING STAFF PERFORMANCE APPRAISAL: 2019-2020 (EVEN SEM) DEPARTMENT WISE CONSOLIDATED REPORT

S.NO	STAFF NAME	SUBJECT CODE	THEORY / LAB	YEAR/ SEM/DEPT	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	TOTAL (100)
1.	Dr.T.PUSHPARAJ	ME6016	T1	IV/VIII/MECH B	93.1	82.8	86.9	88.3	86.9	84.8	84.8	89.7	83.4	85.5	86.62
2.	Mr.P.P. SHANTHARAMAN	ME8692	T1	III/VI/MECH A	92.2	91.3	90.4	93.0	93.0	90.4	93.0	93.0	91.3	93.0	92.09
	SHANTHAKAWAN	ME8692	Т2	III/VI/MECH B	69.2	70.8	70.8	74.6	73.8	73.1	73.8	70.8	70.0	76.2	72.31
3.	Mr.B.ADICHELVAN	ME8493	T1	II/IV/MECH	68.3	66.0	67.5	70.6	71.7	70.6	72.8	69.1	69.4	67.9	<u>69.40</u>
		ME6016	T1	IV/VIII/MECH A	99.4	99.4	98.3	98.9	98.3	98.3	100	97.1	99.4	97.1	98.63
4.	Mr.N.MAGESH	IE6605	T1	IV/VIII/MECH A	98.3	97.7	98.9	99.4	98.3	96.6	100	99.4	97.7	99.4	98.57
		ME6811	L1	IV/VIII/MECH A	94.9	93.1	94.9	96.6	94.3						94.74
5.	Mr.M.MELWIN JEGADEESH	ME8492	T1	II/IV/MECH	72.8	73.2	75.5	75.1	67.5	76.6	75.8	74.3	68.3	74.0	73.32
	SRIDHAR	CE8381	L1	II/IV/MECH	78.1	77.7	76.6	77.0	78.5					!·	77.58
6.	Mr.M.SAKTHIVEL	ME8694	T1	III/VI/MECH B	88.5	91.5	87.7	89.2	87.7	87.7	90.8	92.3	91.5	90.0	89.69
		ME8682	L1	III/VI/MECH B	90.0	86.9	86.9	86.9	89.2						88.00
7.	Mr.H.AGILAN	ME8693	T1	III/VI/MECH A	90.4	92.2	93.0	90.4	90.4	93.0	91.3	91.3	91.3	93.0	91.65
		ME8693	Т2	III/VI/MECH B	92.3	92.3	92.3	93.8	90.0	91.5	90.0	93.8	90.8	92.3	91.92
8.	Mr.S.DESIKAN	ME8451	T1	II/IV/MECH	90.9	90.6	91.3	90.6	89.8	92.1	90.2	90.9	91.7	91.3	90.94
		ME8651	T2	III/VI/MECH B	95.4	95.4	96.2	95.4	94.6	96.2	95.4	92.3	95.4	95.4	95.15
9.	Mr.B.RAMVIGNESH	ME8091	T1	III/VI/MECH B	93.8	93.1	93.1	91.5	94.6	95.4	91.5	94.6	93.1	91.5	93.23
		ME8682	L1	III/VI/MECH A	96.5	95.7	96.5	94.8	93.0						95.30
10.	Mr.S.KARTHI	ME8691	T1	III/VI/MECH B	81.5	79.2	75.4	77.7	73.1	76.9	75.4	80.8	74.6	83.1	77.77

		ME8694	T2	III/VI/MECH A	96.5	93.0	93.9	93.9	93.0	94.8	94.8	97.4	93.9	93.0	94.43
	i	ME8462	L1	II/IV/MECH	79.2	77.7	75.8	72.8	73.2						75.77
11.	Mr.R.SHANKAR	ME8091	T1	III/VI/MECH A	98.3	100.0	96.5	94.8	93.9	95.7	93.9	93.9	96.5	99.1	96.26
		ME8681	L1	III/VI/MECH A	93.9	96.5	97.4	96.5	94.8			L			95.83
12.	Mr V.VIJAYAKUMAR	IE6605	T1	IV/VIII/MECH B	88.3	85.5	85.5	95.9	91.0	86.2	90.3	91.0	85.5	85.5	88.48
		ME6811	L1	IV/VIII/MECH B	90.3	80.0	89.7	84.8	69.0				I <u></u>		82.76
13.	Mr.J.	ME8491	T1	II/IV/MECH	82.6	78.9	78.5	81.1	78.9	79.6	76.2	81.5	80.4	79.2	79.70
	RAJAPARTHIPAN	ME8651	T2	III/VI/MECH A	96.5	93.9	89.6	92.2	96.5	93.9	92.2	94.8	92.2	91.3	93.30
14.	Mr.S.SABANAYAGAM	CE8395	T1	II/IV/MECH	82.6	75.8	75.5	77.7	72.5	73.6	74.7	75.8	74.0	76.6	75.89
		ME8691	Т2	III/VI/MECH A	93.0	94.8	96.5	94.8	95.7	93.9	95.7	93.9	93.0	92.2	94.35
		ME8681	L1	III/VI/MECH B	78.5	78.5	72.3	75.4	76.2		L	<u> </u>			76.15

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COLLEGE OF ENGINEERS ON GARAGE ACCORDING (Approved by ACCTE, New Delhit Affiliated to Anna University, Cheen wat)



DEPARTMENT OF SCIENCE AND HUMANITIES STAFF PERFORMANCE APPRAISAL: 2019-2020 (EVEN SEM) DEPARTMENT WISE CONSOLIDATED REPORT

S.NO	STAFF NAME	SUBJECT CODE	THEORY / LAB	YEAR/ SEM/DEPT	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	TOTAL (100)
1.	Mr.G.JEYAKRISHNAN	MA8451	T1	II/IV/ECE	97.3	96.7	92.0	98.7	96.0	96.0	98.0	90.0	96.7	93.3	95.47
2.	Dr.G.SHANKARAKALIDOSS	MA8491	T1	II/IV/EEE	84	88	92	90	90	88	94	88	94	92	90
	•	MA8452	Т2	II/IV/MECH	70.9	72.5	72.5	73.6	66.4	67.2	75.5	64.9	73.2	70.6	70.72
3.	Dr.R.SURESH	MA8402	Т1	II/IV/CSE	82.5	80.5	77	92	82	79.5	86	81.5	84	74.5	81.95
4.	Ms.S.GEETHA	MA8491	T1	III/IV/CIVIL	87.4	83.2	84.2	92.6	85.3	75.8	82.1	88.4	83.2	77.9	84.00
5.	Mr.B.BARANKUMAR	MG6851	T1	IV/VIII/CIVIL	88.6	85.4	83.8	89.2	85.9	88.1	90.3	93.5	89.2	86.5	88.05
		MG8591	T1	III/VI/ECE	98.9	96.6	97.1	98.3	97.1	96.0	97.7	98.3	94.3	93.1	96.74
6.	Dr.R.SENGUTTUVAN	HS8461	L1	II/IV/CSE	85	83.5	85.5	87	83			1		 	84.8
7.	Mr.P.RAJESHWARAN	HS8461	L1	II/IV/CIVIL	95.8	92.6	92.6	92.6	89.5		•				92.63
		HS8581	L2	III/VI/MECH B	83.8	85.4	85.4	85.4	81.5						84.31
8.	Ms.C.JANSIRANI	HS8581	L1	III/VI/CIVIL	82.1	79 .3	80.0	78.6	77.1						79.42
		HS8461	L2	II/IV/MECH	82.6	79.2	81.9	80.4	80.0		-		···		80.83

								, —,	т						
9.	9. Mr.K.ANANDHA RAJ	HS8461	L1	II/IV/CSE	85	83.5	85.5	87	83						84.8
		HS8581	L2	III/VI/CSE	79.0	77.1	74.8	73.3	74.3	_					75.71
		HS8581	L3	III/VI/MECH A	93.0	94.8	92.2	93.9	92.2						93.22
		HS8581	L4	III/VI/ECE	88.0	90.3	90.9	91.4	89.7		.,,				90.06
10.	Dr.V.SURESHKUMAR	GE8291	Т1	II/IV/ECE	96.7	92.7	94.0	96.0	96.0	97.3	97.3	94.7	92.0	94.0	95.07
11.	Mr.B.SURESH BABU	GE6757	T1	IV/VIII/EEE	98.2	96.4	94.5	94.5	96.4	92.7	94.5	92.7	94.5	96.4	95.09
12.	Mr.K.SUDHAKAR	MG6863	T1	IV/VIII/MECH A	98.9	97.7	96.6	98.3	97.7	98.3	98.9	98.3	97.7	98.3	98.06
		MG6863	T1	IV/VIII/MECH B	94.5	92.4	93.1	91.7	89.7	93.1	91.0	91.0	85.5	86.2	90.83

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QUALITY CIRCLE MEETING







23.10.17

CIRCULAR

III Year students nominated by the departments for representing student views towards promotion of quality in academic process are directed to attend meeting with Principal on 25.10.17 by 3.00pm at Block-I Conference Hall (III Floor)

Departmentwise students list

Civil: A.Neka, Vasanth.S

CSE: D.Santhosh Ram, Samaya.G ECE: K.Gayathry, Tamilselvan.J

EEE : R.Santhoshsamy, Muthumeena.K

Mech : Manohari.M, Alex Raja

PRINCIPAL

Copy To:

- 1. Secretary
- 2. CEO
- 3. VP
- 4. All HoDs







ACADEMIC YEAR 2017-18 (ODD SEM) Student Representative Meeting with Principal

Agenda: Student View on Academic Processes

Date: 25.10.2017

(Minutes of Meeting and action taken)

Principal convened Student Representative Meeting regarding student views on academic processes to strengthen quality aspects on 25.10.2017 between 3.00-4.45pm at Conference Hall. Categorywise representations made by students and enlightenment made are as follows:

Infrastructure

IIII asti u	
Student Representations	Enlightenment made / steps planned
Transport O Arrival time for buses during exam timing shall be advanced (route no:4). Route is also crowded and state of no seats regularly for certain points. O Kumbakonam route to cover Ayyampettai and Papanasam O Request for reduce in bus fee was made.	Transport issues were represented to the committee. Issue resolved.
Few equipments at certain labs are not working.	Servicing of lab equipments are made periodically. Issue resolved through maintenance.
Rest room facility issues (Block II)	Issue resolved. Facility arranged at II Floor.

Teaching -Learning Processes

Student Representations	Enlightenment made / steps planned
Explanations for lab exercise shall be given at class / at lab using projector / suitable method as applicable.	Lab session practices shall be strengthened. Explanations for the experiment by the staff during 1 st hr., experimental slot-2 nd , 3 rd hr which includes verification of completion and viva voce session. Appropriate demo session will be made.
Self-learning in lab sessions to be promoted	Additional learning resources will be made available at respective folders at computer centre for programming labs. Alternative experiment / suitable content beyond syllabus experiment shall be experimented by advanced learners.
Viva questions for experiments shall be made experiment related. Application oriented viva questions shall be added.	Lab manuals will be updated with theoretical procedure and application of the experiment. Viva questions will be made to strengthen learning of the corresponding experiment.

Student Representations	Enlightenment made / steps planned
Lab manual and Question bank content of few lab manuals to be reviewed. Count of Part-A questions shall be increased	Will be resolved in subsequent semester
Additional hours for problem based courses	Additional hours will be allotted for tough / problem oriented papers
Assignment question – unique for every student	Assignment question is planned to support student preparation for exams and student enrichment. Accordingly it will be planned.

Examination and Evaluation process

Student Representations	Enlightenment made / steps planned								
2 Hrs internal assessment slot is convenient. Exams shall be conducted during 3 rd and 4 th hour. 1 st and 2 nd hr preparation slot is comfortable. Additional 10 minutes shall be provided for exam slot.	Will be continued. 10 min extension will be provided								
Saturday coaching classes are effective. Slow learners are utilizing the slot.	Will be continued								
Need Part-C section for all assessments	Will be made. Awareness about the content based preparation in University theory exams was insisted. Students should do in-depth learning in order to meet the University evaluation process.								

Support services

	00111000						
Student Representations	Enlightenment made / steps planned						
Library/Net hour utilization.	No alterations on library and net hour.						
Membership card clarifications.	3 cards per student will continue. Students to utilize library resources.						
Net facility at computing systems at library	Net facility will be provided shortly.						
Cash counter and Scholarship section services during break hours.	Break hour services at cash counter and scholarship section was arranged.						

Skill enhancement practices

	F
Student Representations	Enlightenment made / steps planned
T&P hours - 1 hr for communication skill enhancement	T&P hour will be conducted similar to lab sessions. Evaluation component will be included for student progression
Regular support for communication skill improvement.	Strategy will be introduced

General

Student Representations	Enlightenment made / steps planned
Dress code for lab session	Students should wear Uniform during regular lab sessions. Higher classes (II, III, IV Year students) shall wear uniform and I Year students overcoat. Higher class students if required shall get overcoat and use it during lab sessions. Requirement details classwise to be submitted in prior. Student should come in formal dress code. Personal grooming to be in-tact and violations will not be entertained
Time-table hour clarification (APH Interaction hour)	, Current Time-table hours meet academic requirements, coaching classes and long distance dwellers.
Academic calendar visibility	Academic calendar visibility is ensured. Separate exam calendar and activity calendar will be planned during next semester onwards.

Member Present

Students

Civil : A.Neka, Vasanth.S

CSE: D.Santhosh Ram, Samaya.G ECE: K.Gayathry, Tamilselvan.J

EEE : R.Santhoshsamy, Muthumeena.K

Mech : Manohari.M, Alex Raja.G

Mr.K.Abhirami, IQAC Coordinator Dr.S.Sivakumar, Vice-Principal

J. Martin 2017.

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Student Representative Meeting cooth Principal regarding student Views on Ucademic Processes (25/10/17)

Attendance sheet

Branch	Student Norme GAYATHRY. K.		Signature K. Gash
111 - CSE	CT. SAMAYA M. HANOHARI		C. Samay
Ũ − EEE	K. Muthumeeaa R. Santhosh Sami		J. H. Saywy.
III-CSE III_MECH	5. J. Tamilselvan		5 Dens
II - ECE-B III COVII-A III COVII-B	A. Neka S. Vasanth		A. Nefer.
Dr. S. SIVA WMA		K colley 25/10/17	War.

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ACADEMIC YEAR 2017-18 (EVEN SEMESTER) Student Representative Meeting with Principal

08.02.18

Minutes of Meeting

Principal convened meeting with I year class student representatives on 8.2.18 with the core agenda of support needed for academic progression. Two representatives (1 boy and 1 girl) from each branch of I year class participated, put across the following points. Suitable measures to resolve the issues raised were made.

Common representation regarding academics -I Semester

Common representation regarding academics Toemoses		
(Dec'17-Jan'18 AU exam)result aspects		
Representation made	Initiative / steps planned to support/ suggestions provided	
Mathe	ematics-I	
Mathematics question paper covered unexpected problems. 3 indirect questions were asked in Part-B section. Part -A was also found difficult. Students were unable to identify the method to be used for solving problem For Part-A section, question bank was referred for preparation. Lack of sufficient	 Prescribed /Reference books are issued for current semester for better exposure. Unitwise solved material will be issued to students for preparation 	
University Exam schedule (1 day gap between exams except physics) was not sufficient for preparation	Students were insisted for regular reading practices to raise to the standard of engineering courses. Day before exam to be utilized for revising the learnt content.	
Engg.	Physics	
Due to postponement of AU exams, more leave days. Students has missed due to lethargic attitude. Question paper was easy.	 Students were informed about the credit of 	
Problem Solving and Python Programming		
Reason for "Mech-A students were able to get only 50% of results though other branches have faired well" – Students cooperation was missing.	Students to be regular to classes and follow	

Representation made	Initiative / steps planned to support/ suggestions provided
Engine	ering Graphics
For morning batch, question paper was tough. Only 3 questions were found easier. Unit 1 and 5 th questions were unexpected. Inspite of more problems solved during class hours students were unable to do better.	Application oriented questions to be practiced.
For afternoon batch, students were unable to understand the question.	
Engg. Chemistry	
Class tests was not taken serious by Mechanical students. Retest followup also was not utilized by students	Student cooperation was sought in future.

Branchwise representation regarding academics -Current Semester

Representation made	Initiative / steps planned to support/ suggestions provided
Civil	Engg.
Basic Electrical and Electronics Engineering by Ms.E.Suganya - No difficulties	 Students to prepare theoretical aspects of the problems and equip for attending any sought of question paper Unitwise notes will be given by faculty
Engg. Mechanics by Mr.M.Mohammed Ilyas - No difficulties	Textbook purchase for the subject was insisted
Engg. Mathematics -II by Ms.G.Ramya Arokiyamary - No difficulties (Books issued) Environmental Science and Engineering by Ms.P.Vijayakumari- No difficulties English by Mr.K.Albert Lawrance - No difficulties Physics for Civil Engg. by Mr.A.Anbhazhagan - No difficulties Engg. Practices Lab by Mr.M.Mohammed Ilyas Mr.R.Sundaramoorthi - No difficulties	-
CAD LabDemo to be given in batches	Will be provided by the faculty in-charge.
More input shall be provided	
Question bank and lab manual issue	Will be made within a week
Exposure to better presentation needed E	Faculty will give the required exposure EE

	Target to support
Representation made	Initiative / steps planned to support/ suggestions provided
English by Mr.K.Albert Lawrence	-
– No difficulties	
Engg. Mathematics II by Ms.S.Revathi	-
- No difficulties	
Doubts are attended. Homeworks are given	[·
and verified.	Will be made by faculty
Physics by Ms.S.Anuradha	Will be made by racery
Delivery is good. But, few students are unable	
to understand. Need more attractive session	
Environmental Science and Engineering by	
Dr.S.Udhayakumar - No difficulties	att at a series of the
Basic Civil & Mechanical Engg. by	Students to utilize the rich experience of the
Mr.S.Giridharan- No difficulties	faculty
Classes are interesting and easy to follow	
Circuit theory - Ms.A.Prabha- No difficulties	-
Labs - No difficulties	-
Engineering practices lab by	
Mr.R.Sundaramoorthi, Mr.M.Mohammed. Ilyas	·
Electrical circuits lab by	·
Mr.P.Narasimhan, Ms.A.Prabha	
Mr.P.Narashiman, Ms.A.Frabna	CCE
	, CD
Engg. Mathematics-II by Ms.N.Latha	
- No difficulties	
Homeworks given and verified. Individual	·
support given	
English by Mr.P.Rajeshwaran	-
- No difficulties	
Physics for Electrical Engg. by	Will be made by faculty.
Ms.S.Anuradha	
Student involvement is missing. Classes shall	
be made interesting	
Circuit theory by Ms.C.M.Kalaiselvie	-
- No difficulties	
Electron devices by Mr.W.Newton Davidraj	_
- No difficulties	Will be made.
Basic Electrical and Electronics	Will be made.
Engineering by Ms.P.Thirumagal	
- No difficulties	
Books are to be identified and issued	
Labs- No difficulties	-
Circuits & Devices lab by	
Mr.K.Sudarsanan, Mr.W.Newton David Raj	
Engg. Practices lab by	
Mr.S.Sivakumar, Ms.C.M.Kalaiselvie,	
Mr.R.Suryamurthy	

1	SE
Representation made	Initiative / steps planned to support/ suggestions provided
English by Mr.P.Rajeshwaran	
- No difficulties. Classes interesting	
 Engg. Mathematics-II by Dr.R.Suresh No difficulties Easy to follow. Homework verified. Individual support given. 12th Maths coverage does not mandate on Integral calculus preparation. Hence, 	 Special classes will be organized. In 2 slots session will be organized for all the branches.
additional classes can be given.	
Basic Electrical Electronics and Mechanical Engineering by Mr.S.R.Karthikeyan Slow learners are not able to cope-up.	Since course coverage is vast, additional special session will be organized for Mech, EEE, CSE branches
C Programming by Ms.G.Chandraprabha Students find subject tough.	 More programming examples will be provided during lab session. Additional support will be made.
Environmental Science and Engineering by Dr.A.L.Kavitha- No difficulties	-
Physics for Information Science by	-
Ms.R.Umamaheshwari – No difficulties	
Labs- No difficulties More writing work due to manual readiness	Will be provided within a week
Engg. Practices lab by Mr.R.Balakrishnan, Mr.P.Rajapriyan Mr.G.Mathivanan	
Computer Programming Lab Mr.D.Sivakumar, Mr.M.Arun	
	ch- A
English by Dr.V.Kumaran- No difficulties Faculty speaking fully in English and deep level delivery. Few students to cope-up.	Students to utilize the sessions
Engg. Mathematics II by Mr.G.Jeyakrishnan – No difficulties	-
Basic Electrical and Electronics Engineering by Mr.M.Mayapandi – No difficulties	•
Environmental Science and Engineering by Dr.P.Saravanan- No difficulties	-
Material Science by Mr.A.Anbhazhagan – No difficulties	-
Engg. Mechanics by Mr.S.Giridharan - No difficulties	-

Representation made	Initiative / steps planned to support/ suggestions provided
Basic Electrical Electronics and	Concepts will be taught in the 1hr. and 2 hours
Instrumentation Engg. Lab- by	for experiment
Mr.M.Mayapandi, Mr.V.Moorthy	•
Hour utilization to be made effective. One	
hour was only used for experiments and	
concepts unknown.	
Engineering practices lab by	-
Ms.P.Geethabai, Ms.E.Suganya,	
Mr.Rajeshkumar.S	·
No difficulties	
	ch-B
Basic Electrical and Electronics	Special session will be organized
Engineering by Mr.P.Narasimman	
Classes going on fast. Slow learners find it	
difficult	
Engg. Mathematics II by Ms.J.Angelin	-
Thamaraiselvi	
- No difficulties	
English b y Mr.k.Radhakrishnan	-
- No difficulties	
Environmental Science and Engineering -	
by Dr.V.Sureshkumar -No difficulties	·_
Material Science by Mr.S.Ambalatharasu -	_
No difficulties	Problem based subject. Hence, students to
Engg. Mechanics by Mr.Melwin J.Sridhar	concentrate more.
Subject tough. Teaching is good.	Will be provided
Basic Electrical Electronics and	will be provided
Instrumentation Engg. Lab	
By Mr.Narasimman.P, Ms.A.Prabha	
Theory and lab mismatch. Need basics	
Engineering practices lab	
By Mr.P.Rajapriyan, Mr.A.Herald,	
Mr.N.Magesh- No difficulties	

General representation made(Students) and suggestions made

- Slot for utilizing library facility.
 - $_{\odot}~$ Extended hour support to be utilized. Additional slots will be identified and provided.
- Slot for physical activity (sports).
 - Will be identified and provided.
- Newspaper provision to hostel.
 - O Students to utilize the facility at central library.

General suggestions made(Principal & Vice-Principal)

- Students were motivated for overall development and raise their standard through right attitude towards academics. Regular learning attitude in essential for better performance.
- Prescribed text books and reference books to be utilized in preparation. Faculty will provide unitwise material for supporting in preparation.
- All genuine representations will be considered and necessary support will be provided.
- For problem based subjects, more problems to be solved and practiced. Homework problems to be solved regularly by student.
- Students should utilize opportunities provided for skill enhancement and build better career. Placement opportunities in MNCs and other companies was elaborated and insisted to be prepared for utilizing the drives organized internally and externally. For current batch, 11 students are taking part in Infosys drive organized by AU, CUIC. Additional coaching sessions are arranged for these students.
- Students to be regular to classes to cope-up.

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ACADEMIC YEAR 2017-18

08.2.18

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

Branch	Student	Signature
		1.4846
FCE	O. Odhayarani	v.vohert.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1001
CIVIL	M. Saindariya.	U.S. daya.
FFE	M. Nandhini	MA
CSE	£ Jeevitha	E Jeevitha.
CIVIL	GURU SWATHIR K.S.	Galto.
FEE	Aadhavan S	Thomas
ECE	Melvin Charles B	B-Helm charles
CSE	Venkatesh Raghu Kr.	k. Ventater Ral
Mech-A	R. Mohamed Yasin Sharif	R. Klehensed Yani Same
Mech-A	Madhesh D	Day 100 10
Mech-B	Senthamiz Sudar K	Ay 4860
Mech-B	Shrinam Sundar b	



ACADEMIC YEAR 2017-18 (EVEN SEMESTER) Student Representative Meeting with Principal (FOAC NOO 12 10

Minutes of Meeting

Principal convened meeting with II and III year class student representatives on 8.2.18 with the agenda of student support requirements for academic progression. Two representatives (1 boy and 1 girl) from each class participated, put across the following points. Suitable measures to resolve the issues raised were made.

Representation made	Initiative / steps planned to support/ suggestions	
Representation made	provided	
G	eneral Issues	
Coaching classes shall be organized on Saturdays due to difficulties in transport facility	 Students with poor performance in assessments to work hard and secure good marks. To support slow learners only coaching classes are organized. Students to fair well in Assessment -II. Saturdays are scheduled for identified tough subjects coaching. 	
Coaching classes till assessment schedule.	Coaching classes will not be scheduled on assessment days.	
Students thanked for college transport facility to public transportation users during coaching classes.	Will be continued	
One Class test per day	Departments are scheduling class test.	
Hostel study time for girl students	Will be discussed with Warden and finalized	
Water facility & Internet facility at girls hostel	Will be addressed.	
GATE Hour utilization	 GATE coaching only for aspirants during the slot Other students will be given coaching on tough subjects during the slot 	
Preparatory time for Assessments on	Scheduled between 10.30-12.30. 9.15 am to 10.15	
the day of exam	shall be utilized to revise.	
Boys hostel phone usage	Will be addressed	
Industrial visit	In House Training slot during vacation to be utilized	
Branchwise representations		
Civil Engg.		
Guest Lecture session are useful	Will be continued in future too.	
Course difficulties are resolved	-	
Course materials	Faculty members will provide unitwise course material (covering Part-B questions)	

Representation made	Initiative / steps planned to support/ suggestions provided
Book issue & lending from department library	Will be provided
Central Library - Better Xerox support	Will be made
Laboratories – observation and records are verified	-
T&P hours are conducted as per schedule	-
Computer S	cience and Engineering
For Department library usage additional staff needed	Will be made
Labs are going on with better learning approaches.	Will be continued
T&P hours are conducted as per schedule	-
DSP classes are going are smooth.	•
Communication Skills slot is utilized in a better manner	-
Daily test followup issue - Absent marked for failures	Will be addressed.
Electronics and	Communication Engineering
3 days consecutive AU exam schedule	Representation to AU already made.
Lab sessions going on well	
Assessment test key – mismatch with question bank for the subject Antenna and Wave Propagation	Will be addressed
Additional assignment writing students irregular to classes (missed regular classes)	Will be addressed.
Electrical and	l Electronics Engineering
OOPs lab – record submission not informed. All students stood and wrote for 3 hrs.	Will be addressed.
Mecha	nical Engineering
CNC lab sessions are going on well	-
PPT sessions are required	Will be made
Monthly events are organized for enrichment	Will be continued
Student programmes in tie-up with other organizations	Will be addressed.







ACADEMIC YEAR 2017-18

08.2.18

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL (Towards Quality improvement initiatives)

ATTENDANCE SHEET

Branch	Student	Signature
CIVIL	K.Kowsalya, II Yr.	R. Kowsalya.
	S.Surya, II Yr.	ed Consult
	A.Neka. III Yr	A. Neca.
	S.Vasanth, III Yr.	With 8
CSE	Santhosh Ram.D, II Yr.	Doanny
	Samaya.G, II Yr.	of Samays
	Bharanitharan.N, III Yr.	N.7212
	Thilagavathi.S, III Yr.	Stilt.
ECE	S.Dhanasekaran, II Yr	S. Dimin
	K.Priyadharsini, II Yr.	S. Mart.
	K.Gayathry, III Yr.	J. 614
	J.Tamilselvan, III Yr.	J. Deel
EEE	S.Parthiban, II Yr	5. patripra
	R.Pavithra, II Yr	& South
	R.Santhoshsamy, III Yr.	elysty.
	K.Muthumeena, III Yr.	k Mith
месн	S.Afshal Hussain, II Yr.	S. Ahring
	Chyleshwar.M, II Yr.	H. Cabl
	M.Manohari, III Yr.	My Macan
	Alex Raja.G. III Yr.	Golling

PRINCIPAL PRINCIPAL



ACADEMIC YEAR 2017-18 (EVEN SEMESTER) Student Representative Meeting with Principal(I Yr. classes)

03.04.18

Minutes of Meeting

Principal convened meeting with I year class student representatives on 2.4.18 with the agenda to identify academic progression and student requirements.

Branchwise representation regarding academics -Current Semester

Representation made	Initiative / steps planned to support/ suggestions provided
Civil	Engg.
Basic Electrical and Electronics Engineering by Ms.E.Suganya – No difficulties	Subject is voluminous. Spend more time.
Engg. Mechanics by Mr.M.Mohammed Ilyas - No difficulties	Library books to be utilized for reference. Problem based subject. Hence, students to concentrate more.
Engg. Mathematics -II by Ms.G.Ramya Arokiyamary - No difficulties	-
Environmental Science and Engineering by Ms.P.Vijayakumari- No difficulties	-
English by Mr.K.Albert Lawrance – No difficulties	To complete book exercises. Verification on 7.4.18
Physics for Civil Engg. by Mr.A.Anbhazhagan – No difficulties, Weekly 2 tests are conducted	-
Engg. Practices Lab by Mr.M.Mohammed Ilyas Mr.R.Sundaramoorthi - No difficulties CAD Lab - No difficulties. Procedure is explained in	To utilize additional hours (if required) and complete lab sessions as per schedule.
prior	EE
Representation made	Initiative / steps planned to support/ suggestions provided
English by Mr.K.Albert Lawrence - No difficulties	To complete book exercises. Verification on 7.4.18
Engg. Mathematics II by Ms.S.Revathi - No difficulties	-

Representation made	Initiative / steps planned to support/ suggestions provided
Physics by Ms.S.Anuradha	-
Student attention is made. Classes interesting.	
Environmental Science and Engineering by	-
Dr.S.Udhayakumar – No difficulties	
Basic Civil & Mechanical Engg. by	-
Mr.S.Giridharan - No difficulties	
Circuit theory - Ms.A.Prabha- No difficulties	•
Labs – No difficulties	_
Engineering practices lab by	
Mr.R.Sundaramoorthi, Mr.M.Mohammed. Ilyas	
Electrical circuits lab by	
Mr.P.Narasimhan, Ms.A.Prabha	
	CE
Engg. Mathematics-II by Ms.N.Latha	
- No difficulties	
Homeworks given and verified.	1
English by Mr.P.Rajeshwaran	To complete book exercises. Verification on
- No difficulties	7.4.18
Physics for Electrical Engg. by	7.7.10
Ms.S.Anuradha	
Classes are interesting. Tests conducted.	
Retest also given.	A CONTRACTOR OF THE CONTRACTOR
Circuit theory by Ms.C.M.Kalaiselvie – No difficulties	-
Electron devices by Mr.W.Newton Davidraj	
- No difficulties	-
Basic Electrical and Electronics	Subject is voluminous. Spend more time
	Subject is volumnious. Spend more time
Engineering by Ms.P.Thirumagal - No difficulties	
Books are to be identified and issued	A-1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-
Labs	
Circuits & Devices lab by	Additional lab aggions will be played
Mr.K.Sudarsanan, Mr.W.Newton David Raj	Additional lab sessions will be planned.
- Only 4 experiments completed.	
- Few meters not working	
Engg. Practices lab by	
Mr.S.Sivakumar, Ms.C.M.Kalaiselvie,	
Mr.R.Suryamurthy	GP.
	SE · · · · · · · · · · · · · · · · · · ·
Representation made	Initiative / steps planned to support/ suggestions provided
English by Mr.P.Rajeshwaran	To complete book exercises. Verification on
- No difficulties.	7.4.18
Engg. Mathematics-II by Dr.R.Suresh	-
- No difficulties	

Representation made	Initiative / steps planned to support/ suggestions provided
Basic Electrical Electronics and Mechanical	Subject is voluminous. Spend more time.
Engineering by Mr.S.R.Karthikeyan	
C Programming by Ms.G.Chandraprabha	Aps for C programming shall be utilized.
Programs are explained. Easy to follow	Reference books to be utilized for enhancing
	programming skills.
Environmental Science and Engineering by	
Dr.A.L.Kavitha- No difficulties	
Physics for Information Science by	•
Ms.R.Umamaheshwari – No difficulties	
Labs- No difficulties	-
Engg. Practices lab by	
Mr.R.Balakrishnan, Mr.P.Rajapriyan	
Mr.G.Mathivanan	
Computer Programming Lab	
Mr.D.Sivakumar, Mr.M.Arun	
Med	:h- A
English by Dr.V.Kumaran	Will be provided.
- Need examination oriented preparatory	•
guidelines.	
- Revision for all topics is required.	
Engg. Mathematics II by Mr.G.Jeyakrishnan	-
- No difficulties	
Basic Electrical and Electronics	Extra hours will be planned.
Engineering by Mr.M.Mayapandi	-
- Unit IV is just started. Few days for syllabus	
completion. Additional hrs. needed.	
Environmental Science and Engineering by	-
Dr.P.Saravanan- No difficulties	
Material Science by Mr.A.Anbhazhagan	•
- No difficulties	
Engg. Mechanics by Mr.S.Giridharan	-
- No difficulties	
Basic Electrical Electronics and	-
Instrumentation Engg. Lab- by	•
Mr.M.Mayapandi, Mr.V.Moorthy	
Engineering practices lab by	-
Ms.P.Geethabai, Ms.E.Suganya,	
Mr.Rajeshkumar.S	
No difficulties	
Mech- B	
Basic Electrical and Electronics	Subject is voluminous. Spend more time.
Engineering by Mr.P.Narasimman	
- Individual attention is needed for	
problems based sessions.	
Engg. Mathematics II by Ms.J.Angelin	-
Thamaraiselvi- No difficulties	

Representation made	Initiative / steps planned to support/ suggestions provided
English by Mr.k.Radhakrishnan	Will be provided
 Need examination oriented preparatory guidelines. 	
Environmental Science and Engineering -	-
by Dr.V.Sureshkumar -No difficulties	
Material Science by Mr.S.Ambalatharasu –	•
No difficulties	·
Engg. Mechanics by Mr.Melwin J.Sridhar	Problem based subject. Hence, students to
-No difficulties	concentrate more.
Basic Electrical Electronics and	Will be provided
Instrumentation Engg. Lab	•
By Mr.Narasimman.P, Ms.A.Prabha	
Engineering practices lab	-
By Mr.P.Rajapriyan, Mr.A.Herald,	
Mr.N.Magesh- No difficulties	

Special session on

- Presentation tips for University examinations
 - o Mathematics & Problem based subjects
 - o Theory papers
- And preparatory guidelines is planned for all the classes.
- For CSE students, session will be planned for Basic Electrical Electronics and Mechanical Engineering

General suggestions made(Principal & Vice-Principal)

- Students should improve regular reading habits. Knowledge will give raise to confidence level too. Hence, students to cover topics regularly.
- Advanced learners shall guide and motivate average and slow learner. Peer learning activity was encouraged.
- Conduct of Revision and ICC classes was elaborated. Students to utilize revision classes effectively. Assigned topics for the day to be covered and test to be written.
- Students should aim for higher grades in examination and maintain good CGPA.
 Importance of no history of arrears and nil arrear category was explained.
 Priority for such category in placements was also elaborated to students.
- Lab sessions to be utilized effectively. Students should learn about essentials of every experiment and do experiments with clear understanding.

FRINCIPAL



ACADEMIC YEAR 2017-18

02.4.18

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL (Towards Quality improvement initiatives) – I Yr.

ATTENDANCE SHEET

Branch	Student	Signature
CIVIL	M.Soundariya	M. foundariya.
	K.S.Guruswathik	-AB-
CSE .	K Vengatesh Ragu	Ventater Lat. K.
	Jeevitha.E	E. Jeevitha
ECE	U.Ugayavani	12.12 dinau
	Melvin Charles	B. Melmi Church
EEE	S.Aadhavan	The state of the s
	M.Nandhini -	M. Pandhini
МЕСН-А	R.Mohamed Yasin Sharif	R. Hohawal Yan David
	D.Madhesh	DAME:
меєн-в	K.Senthamizh Sudar	Goodwo -
	K.Shriram Sundar	RG

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ACADEMIC YEAR 2018-19 (ODD SEMESTER) Student Representative Meeting with Principal

08.08.18

Minutes of Meeting

Principal convened meeting with II year class student representatives on 7.8.18 with the agenda of academic progression and identification of support needed by students. Two advanced learners and two average learners from each branch of II year class participated.

Common representation regarding academics –I Semester

(Dec'17-Jan'18 AU exam) result aspects

(Dec 17-jan 18 AU exam)result aspects		
Representation made	Initiative / steps planned to support/	
	suggestions provided	
	CIVIL	
No difficulties in subjects & labs. CDC for	General: Students to practice exercise	
advanced learner covers soft skill and		
communication skills classes.		
С	SE	
Communication Engineering : students	Will be provided.	
represented for additional support.		
Issue of Lab manual & Question bank	Will be completed by this week.	
IS&LS lab was scheduled in Saturdays	Will be scheduled during weekdays.	
E	CE	
Signals and Systems : Students requested for	Additional sessions will be arranged. Issue	
additional support. Few students were unable	will be dealt.	
to understand concepts. Requested for notes.		
ADC Lab : Few equipments not working	Will be rectified.	
(including power supply)		
	EJE	
No difficulties in theory subjects	_	
Electronics Lab : Ammeter reading deviations	Will be rectified.	
	ech	
	Will be provided. Tutorial sessions will be	
for Engineering Thermodynamics, Fluid		
Mechanics and Machinery subjects	promised during of mour.	
Students represented about hotness at	Appropriate set is available. Windows to be	
Manufacturing Technology lab	kept open.	
Few machines at CAD lab not functioning	Will be rectified.	
В		

General requirements mentioned by students and solution provided

- Few long distance students represented for closing timing as 4.30pm.
 - Giving importance to the revision slot (8th hour) which includes preparation cum test, it was resolved by commuting 1st slots for long distance routes.
- Request for hostel study timing changes.
 - Will be discussed and finalized.
- Participation in sport activities.
 - o Interested candidates shall avail extended hour sport facilities.
- Hostel computing facility (Girls hostel)
 - o Systems with internet facility will be provided.

General suggestions made(Principal & Vice-Principal)

- Books are procured for all subjects. Prescribed text books and reference books to be utilized in preparation. Faculty will provide unitwise material for supporting in preparation.
- For all problem based subjects, book exercises to be practiced by students exhaustively. Additional revision slots will be provided for problem based subjects.
- Class securing 75% and above results in Anna University examinations will be permitted for Industrial visit. ISRO, Thermal Power station-Koodankulam and other related centre visits will be arranged.
- Absenteeism for internal assessments will be viewed seriously.
- Regulations 2017 is designed meeting the latest technological implementations and usage. Students to understand the raise in standard and inculcate regular learning habits to fair well.
- Since II year curriculum introduces core engineering papers, students to work hard regularly. Being explored to the AU examinations for 2 semesters, students to cope up and prepare well for examinations.

PRINCIPAL







ACADEMIC YEAR 2018-19 -ODD

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL (Towards Quality improvement initiatives)

ATTENDANCE SHEET

Branch	Student	Signature
CIVIL	M.Soundariya	M. Soundariya.
	K. @ .Guruswathik	Gundantile K. Venbater Pa
CSE	K.Vengatesh Ragu	K Verbater Qd
	E.Jeevitha	E. Teevitha
ECE	U.Udayavani	o. vahael
	Melvin Charles	Backmechados
EEE	S.Aadhavan	Thavan
•	N.Nandhini	M. Nandhini
МЕСН	R.Mohammed Yasin Sharif	P. Nohamad Yasin shains.
	D.Madhesh	Danier?
	K.Senthamizh Sudar	gister.
	K.Shriram Sundar	RI

VICE-PRINCIPAL

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ACADEMIC YEAR 2018-19 (ODD SEMESTER) Student Representative Meeting with Principal

23.08.18

Minutes of Meeting

Principal convened meeting with III year & IV year student representatives on 21.8.18 with the agenda of academic progression and identification of support needed by students. Two advanced learners and two average learners from each branch of II year & III Year classes participated. Principal briefed on the following matters during the meet.

- All genuine student representations are considered and necessary efforts are
 taken towards meeting student requirements. Student feedback is collected
 through various means viz., CCM, Staff Appraisal, IQAC meetings, Counseling
 sessions, Grievances redressal cell etc. KCE practice of Grandaunts degree by
 Parents was highlighted and the responsibility that every son / daughter should
 have in honoring their parents was insisted.
- Principal enlightened on the efforts to be taken by the students towards
 improving skills that are essential for engineers. Periodical practices
 adopted at KCE was referred and students were directed to utilize the
 opportunities. Necessity for consistent learning habit and concept based
 learning was insisted. Peer team support shall be practiced for betterment.
- Placement opportunities created at KCE to be utilized by IV year students by exclusive utilizing training slots offered.
- Periodical tests are conducted to give better exposure and face AU exams with confidence. Students to be regular to classes and attend tests / exams with appropriate preparations. Retests are conducted to aid the slow learner to earn internals.
- CDC classes for advanced learners enriching their skills and KDC classes for average & slow learners supporting them for academic courses are practiced during this semester onwards. Students are directed to utilize their slots effectively.
- Regularity and Punctuality among students was insisted for regular classes and for examinations. Few deviations are identified in certain departments.

- Quality final year project work was insisted. Students to prepare for survey paper presentation, publication during VII semester and conference, journal publication during VIII semester.
- **SWAYAM** courses to be undergone by students. Class with maximum registration will be honored.
- Professional society activities are organized providing opportunity for talent exposure and enrichment. Students to utilize the events organized.

General requirements mentioned by students and solution provided

- College closing time revision was represented by students to support long distance student commutation (public transport facility availing students).
 Representation will be considered and changes will be informed shortly.
- Arrear subject coaching was represented by students. Classes are organized for mathematics subject. Respective department HoD will arrange for classes as per student request.
- Representation regarding GATE classes for Mechanical IV year student was made. Efforts will be made by the department to impart better exposure.
- Inclusion of 1 arrear students for CDC session was represented. Students shall contact respective HoD and shall attend sessions.
- Sports representation regarding inter-zonal game participation by athletes was made. Student to report with record of individual achievements and will be dealt suitably encouraging student participation.
- Symposium general code of conduct to be followed. Refreshment representation was made. Students will be informed shortly about the decision. It was insisted to convene symposium meeting its objective of knowledge sharing, skill exposure, networking with community and enhancing organizing skills among student community.
- Local visit / Industrial visit will be considered crediting AU results.

J. 18/18/18.

PRINCIPAL







ACADEMIC YEAR 2018-19 -ODD

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL (Towards Quality improvement initiatives)

ATTENDANCE SHEET

Branch	Student	Signature
CIVIL	K.Kowsalya, III Yr.	Starte.
e e e e e e e e e e e e e e e e e e e	S.Surya, III Yr.	AB
	A.Neka. IV Yr	A. Nelson
	S.Vasanth, IV Yr.	W. H. S
CSE	Santhosh Ram.D, IV Yr.	D.sall
	Samaya.G, IV Yr.	G. samaya
	Bharanitharan.N, III Yr.	_
	Thilagavathi.S, III Yr.	
ECE	S.Dhanasekaran, III Yr	as summet.
	K.Priyadharsini, III Yr.	& Mont
	K.Gayathry, IV Yr.	
	J.Tamilselvan, IV Yr.	J. Ourf.
EEE	S.Parthiban, III Yr	
	R.Pavithra, III Yr	A Fai Hea.
	R.Santhoshsamy, IV Yr.	garasm'
	K.Muthumeena, IV Yr.	K. M. W.
МЕСН	S.Afshal Hussain, III Yr.	S. ARufary
	Chyleshwar.M, III Yr.	H. diles
	M.Manohari, IV Yr.	N. 18-~
	Alex Raja.G. IV Yr.	G Down

VICE-PRINCIPAL

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ACADEMIC YEAR 2018-19 =ODD

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL (Towards Quality improvement initiatives)

ATTENDANCE SHEET

Branch	Student	Signature
CIVIL	T. Nandhini (11 year)	J. Darelhimi
	P. Shallmider (IV year)	P shiple
CSE	S. Yuvalaks hmi Priga (Ivy)	&8 -1
	F Prodeep!	k July
ECE	Gf. Shotsuruteri/7 Ahmayakonthi	(-8). 200 Bil7. Hi
	M AJAY	M Jay
EEE	R-AKOSh	PAPorto
	SOMNIND S Sportmoun. RASIKA M	French M. earl
MECH	k. Abinush. k (11 m)	18 9 ;
	B. Vergechoussan S. Ranista Kumay	S. Rmith hun.
CIVIL	K. Ganesh Adhithya	H. G. A.
ECE	S. JEEVA	8.504
CIVIL	H-MOHAMED AMEERAN	homeuff:
MECH	R. Madhan	elle-
CNIL	M. Dithish Kuman	Dubika
EEE	P. Aravindan	PAL
FCF	S. Berkmaauz.	O) Kuhn
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ACADEMIC YEAR 2018-19 (ODD SEMESTER) Student Representative Meeting with Principal

17.09.18

Minutes of Meeting

Principal convened meeting with II year Lateral entry students on 15.9.18 with the agenda of identifying support needed by students and motivate students for better performance. Principal elaborated on the following points initially and directed students to mention about their requirements.

- Highlights about Regulations 2017 and Examination pattern was detailed and students were insisted to prepare well for AU examinations.
- Importance of maintaining consistent academic records and Placement opportunities for students was explained.
- Preparatory tips for theoretical and problem based paper was detailed.
- Importance of Quality project works was explained.
- Students were directed to inculcate regular learning habit and conceptual learning for fairing well in AU exams.
- Students were directed to seek support of subject staff for any clarification in subjects.
- Students to solve book exercises for problem based subjects.
- Students to abide to the rules and code to maintain discipline

Departmentwise representation made by students

Representation made	Initiative / steps planned to support/ suggestions provided
	CIVIL
Fluid Mecahnics & Strength of Materials : Extra classes required	Will be arranged
Construction Material : Keypoints required. Teaching in Tamil language	Keypoints will be provided. Students to cope up language skills. Additional support will be provided by staff
	SE
Communication Engineering : students represented for additional support for problems	Will be provided.
OOPS : Support for writing Java Programs	Will be provided
ECE	
Additional revision slots for subjects	Additional sessions will be arranged.

Representation made	Initiative / steps planned to support/ suggestions provided
₹ E I	EE (1)
Electro Magnetic Theory : Need additional support(Find difficulties in following equations)	Will be provided
Med	:h-A
Students represented for additional support for Maths, Fluid Mechanics	Will be provided.
Med	:h-B
Thermodynamics : Fast delivery. Not able to follow	Will be addressed

Students shall utilize Suggestion box and Grievances redressal cell to register any issues / requirements.

- non 26/9/00.

PRINCIPAL

ECE - S. Jayary EEE - C. Estate CSE -> 4. Jeor 21/9/18 Civil - S. Someone MECh - a. Sahan 27/9/18 Tyeor > Bigs







ACADEMIC YEAR 2018-19-ODD

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL (Towards Quality improvement initiatives)

ATTENDANCE SHEET

(15.9.18)

	Late	ial Entry Studiota
Branch	Student	Signature Strong
EEE	P. GOPINATH	P. Cropully
civil	V. SARAVANIAN	V. Danavaran.
Civil	&- GURUHARAN	BOOM)
civil	C-BOOMIDURAL	Book-
CIVIL	L. Velinger Paul	1. H.
EEE	& Hariharan	& slawy
Civic	P. SANTHOSH KANDHAN	21-12-1
Civil	Logosh A	A. la oshi
CIVIL	A. ARUL STALIN	A. Arufshing
Civil	K. Arokia Alex	De-Auto Alux
CIVIL	R. Vignegh	R.O.
GuiL	T. Ratch	7-potosh
Meen	of And Jone	of you Tone
Mech	J. vijay chandru	Light
ciul	T. Premouth	T. Breverth
CiviL	K. NARESH VEKKALDD AGAYO	K. Nhelely
Mech	B. Rajon Rajesuwray	3 Danas
Mech	K. Sarthorth Shakes	to Sent you then

Branch	Student	Signature
MECH	E. DINESH	E. D.B
ECE	M. VIJAY	Dvi Joj.
Fc F	R. Sovian Kamer	
CIVIL		D. Somen Humany Lunguya 5
CIVE	Kanpagam. 3 R. Lashiga	Plato
CIVIL	L. Sahittiya	Biltuje -L
ELE	a Keerthana Shri	G. Kenthan Shri
:5E	A-Vinoth	
CSE	& Vimal Raj	P.O.
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19/18-







ACADEMIC YEAR 2018-19 (ODD SEMESTER) Student Representative Meeting with Principal

30.10.18

Minutes of Meeting

Principal convened meeting with I year class student representatives on 30.10.18 with the agenda of academic progression and identification of support needed by students . one advanced learner and one average learner from each section of I year class participated.

Common representation regarding academics -I Semester

Common representation regarding academics -r semester		
Representation made	Initiative / steps planned to support/	
	suggestions provided	
A -S	ECTION	
Communicative English: Weekly 5 hours are	Informed concerned staff & no alterations in	
given. But utilization is 3 hours only.	hours will be entertained.	
Engineering Physics: The concern staff had	Staff member informed about this.	
taken break and lunch hours		
Problem solving and python programming:	Hours will be compensated.	
Due to holidays, lab hours are shortage.		
B-SE	CTION	
Engineering chemistry: Tamil medium	Staff member informed & suitably classes will	
students felt difficult to follow teaching in	be handled.	
English.		
Engineering Mathematics: He had given more	Guidance will be provided by staff.	
number of problems as home work, the		
successive day he had given the final answer		
only. It is difficult for solving home works.	·	
	CTION	
Engineering Mathematics: Cannot understand	Additional coaching will be provided.	
the concepts clearly.		
D -SECTION		
General: Class handling ladies staff members	Staff members informed and will not occur in	
treats the slow learners not good, and using	future.	
harsh words.		
E -SECTION		
No difficulties for teaching in all subjects		

General requirements mentioned by students and solution provided

- In EG-Drawing Hall, fan and tube lights facilities are not enough and some of them are not in working condition.
- Need internet connection in girls hostel.
 - o Systems with internet facility will be provided
- In first year class rooms most windows are damaged.
- On the way to canteen, senior boys are sitting in the wall. This made inconvenience for first year girls.
- In girls hostel the wastages are put in the lift, mosquitoes are formed due to this
- In first year block, rest rooms (both boys and girls) are not maintained properly.

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PRINCIPAL







ACADEMIC YEAR 2018-19 -ODD

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL (Towards Quality improvement initiatives)

ATTENDANCE SHEET JYT.

C 30 * (0.18)		
Branch	Student	Signature
CIVIL	P. Silanubarasan	p. duy
	k Hariya	k. Miga
CSE		
	P. ABINDYA	P. Abriga
	B. Jabilan	P. Abriga
ECE	R. Vishwanath	Shumond ?
· .	S Chiltra sri	8. Cht sr
EEE	P. RAGHUL	P-Part
	N. JOHNARYA	N. Ishja
MECH	K. Aggri Rimas	LA
	s siva	15 Budg



ACADEMIC YEAR 2018-19 (EVEN SEMESTER) Student Representative Meeting with Principal

05.03.19

Minutes of Meeting

Principal convened meeting with II year & III year student representatives on 04.03.19 with the composition of advanced, average and slow learner from engineering branches. With the agenda of identifying student requirements, meeting was organized.

Branchwise student representations are as follows.

II Year classes

CIVIL

- No issues. Extra classes are arranged for tough subjects
- Except Hydraulics Lab based experiments, other labs completed.
- · Lateral entry students are able to perform better.

CSE

- Need extra coaching for OS & SE.
- PQT -5th Unit few topics to be completed

ECE

- PRP 1 Unit to be completed
- LIC lab 2nd batch simulation based experiments to be completed.

EEE

• M&I subject is found tough by students.

MECH

- A sec Maths, SoM, KoM 5th unit is handled.
- B sec- syllabus completed. Labs also completed.

III Year classes

CIVIL

No difficulties.

CSE

- Need extra classes for DSP and CD
- Lab classes completed

ECE

FPGA Lab - R&D kit based experiment demo was requested.

T&P training – additional exercises for practice was requested.

EEE

- Students are motivated for paper presentation and conference participation
- NIT workshop was found useful.
- PCE skills exercises are useful.
- DEM need extra slots during revision.

MECH

- A- sec -Labs sessions are over. Part-A practice is lagging in students.
- B-sec FR subject is tough (FEA)

Principal motivated students to perform well in exams. Regular reading habits was insisted. Industrial training efforts are to be made effectively. In-House projects are encouraged. Students to concentrate on aptitude skills and overall development so as to land up with better career opportunities. Question bank covers Anna University question set, hence students to practice well and perform better in exams.

PRINCIPAL



ACADEMIC YEAR 2018-19 (EVEN SEMESTER) Student Representative Meeting with Principal

05.03.19

Minutes of Meeting

Principal convened meeting with IV year student representatives on 04.03.19 with the composition of 2 overall performers, 1 average and 1 slow learner from engineering branches. Students were given open platform to share their experiences at the campus for 4 years period. Students were also directed to share suggestions if any.

Branchwise student representations are as follows

CIVIL

- Learning experience was joyful.
- **Appreciated the practices** of Value Added courses, My Credit Course, Library resources, Competency Development classes
- Structure of Question bank and it content was appreciated.
- Student from Chennai based mentioned about the usefulness of coaching classes.
- Syllabus coverage and Assessment practice was appreciated.
- Representation for **Cultural programmes** to be continued was raised.
- Represented about their comfort for color dress over uniform.
- Sports event participation other than zonal matches was represented.
- Placement opportunities was represented. (efforts are taken)

CSE

- Coaching & Saturday classes though found tough initially was effective and useful.
- Goolge classroom practice is good.
- Question bank is good. Guidance by staff is good.
- · Revision classes are very useful.
- Coding by student can be encouraged more.
- Initiatives for communication skills improvement was represented.
- Training sessions / provision for GMAT / GRE / IELTS / UPSC exams shall be arranged.

- Arrear students to be motivated for external event participation. OD not to be sanctioned based on arrear.
- Lab printout sheet size can be set as the size of A4. Find difficulties in taking printout.

ECE

- Care and guidance is good.
- College timing is comfortable.
- Representation for Assessment answer script correction can be made by staff not handling class / course
- Weekly test during T&P hours. Additional practice for aptitude skills.
- Library Computing system issue due to virus was mentioned. (Steps taken to resolve).
- Students represented for Dispensary facility. (Steps will be taken)

EEE

- Need printout facility at Library
- Question bank distribution can be made little earlier.
- Student friendly approach is good.

MECH

- **CNC Machine** utilization can be enhanced. Service pack alone utilized. Other labs are OK.
- Overall development activities was appreciated and found effective. Stage fear defeated. Motivations for overall growth at KINGS is good. 18th ISTE provided platform to stage and then continued with other events.
- Assignment Presentation Hour (APH) is useful. To be continued effectively,
- Graduation Day certificate by Parents is good.
- **Staff-Student relationship** is good. Staff members are motivating and supporting for overall growth of students.
- ALUMNI interaction sessions are useful.

Principal & Vice-Principal insisted for student preparation towards placement opportunities. **Examiniation** preparation guidelines was shared. Mathematics arrear coaching sessions to be utilized. Principal appreciated the batch for their performance, wished students for better performance in exams and successful career.

RAZ

T. PRINCIPAL



ACADEMIC YEAR 2018-19 (EVEN SEMESTER) Student Representative Meeting with Principal

06.03.19

Minutes of Meeting

Principal convened meeting with I year student representatives on 05.3.19 with the agenda of academic progression and identification of support needed by students. Two advanced learners and 1average & slow learner from each branch participated in the meeting.

Principal briefed on the following matters during the meet.

- Students should cultivate habit of regular learning & coverage of topics dealt every day. Regularity in attending classes, lab sessions, internal assessments was insisted.
- Students were informed about maintaining better CGPA with nil arrear status for availing campus placement opportunities. Students were advised to improve English communication skills.
- Regulations 2017 major highlights was briefed.
- Homeworks assigned for Mathematics courses are to be completed and submitted every day. Necessary support will be provided to support student progression in studies.
- Anna University preparatory guidelines was given
 - o Prescribed textbooks and reference books are to be utilized for preparations.
 - Internal Assessment Question paper matches with the Anna University end-sem exam question paper. Students were instructed to prepare well for internal assessments, raise their standards and perform well.
 - Question Bank covers previous year Anna University Question paper collections. Hence, students were advised to utilize question bank for their preparations.
 - o Students were also advised to attend Part-A questions for better scores.
- Students were advised to enhance their skills, maintain consistent records and avail placement opportunities.

Branch specific representations made are as follows:

CIVIL

- Need additional sessions. Content delivery to be little more elaborated.
- Physics need simplified notes.
- Engineering Mechanics Good
- Other subjects no issues.

CSE & ECE

• No issues

EEE

• Circuit Theory – difficult to understand. Need more support.

MECH

BEEE - Need notes

PRINCIPAL







ACADEMIC YEAR 2018-19 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives) **ATTENDANCE SHEET – II & III Yr. classes**

Branch	Student ,	Signature
CIVIL	M.Soundariya, II Yr	H. Sourdariya,
	K.G.Guruswathik, II Yr	AB
	K.Kowsalya, III Yr.	Beagl.
	S.Surya, III Yr.	عار منال
CSE	K.Vengatesh Ragu, II Yr	K.Venkate8h Roghu
	E.Jeevitha, II Yr	E. Jecvitha
	Bharanitharan.N, III Yr.	N'sid
	Thilagavathi.S, III Yr.	STAN
ECE	S.Dhanasekaran, III Yr	Of gunning.
	K.Priyadharsini, III Yr.	B. MAY
	U.Udaya y ani, II Yr.	U. udharf.
	Melvin Charles, II Yr.	Bulin charles.
EEE	S.Parthiban, III Yr	of RAwhon
	R.Pavithra, III Yr	& faith
	S.Aadhavan, II Yr	Favan
	N.Nandhini, II Yr (N. Tshwazga)	N. TShyar
MECH	S.Afshal Hussain, III Yr.	S. ARM My
	Chyleshwar.M, III Yr. E. Sarjay	\$·\$
	R.Mohammed Yasin Sharif, II Yr.	Red.
	D.Madhesh, II Yr.	D. all s
	K.Senthamizh Sudar, II Yr.	about.
	K.Shriram Sundar, II Yr.	AB

PRINCIPAL







ACADEMIC YEAR 2018-19 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives) **ATTENDANCE SHEET – IV Yr. classes**

Branch	Student	Signature
CIVIL	A. Neka	4. Dorker
	5 Amar Selvar	J.D.HH
	11. Brini Diyan	M. Copyry.
	S. Vasanth	Qtes
CSE	S. Brwanestwari	Canj
	S. Yuvalak Shmi Prlya	8.41
	Mohan tuncar. S	22
	B. Jayprakal	Bitagan
ECE	J. TamilSelvan	J. Deel
	N. vigneshway	N faulus
	G. Anitha	(U)
	K. GIAYATHRY	L. Gues
EEE	K. Muthursena	K. acti
	R. Baranika	R. Balufan
	J Dhinesh	5. Chinal
	B. Rohinsh.	B. Palich
месн	R.R. PRAVIN	RR Bak
	M. B. Santhash	4. RSalco
	GI. ALEXRAJA	G. Alewaja
	P. SIVA PRASATH	M.R.Sales G. Alewaija Ndijetti

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ACADEMIC YEAR 2018-19 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives)

ATTENDANCE SHEET - I Yr. classes

Branch	Student	Signature
CIVIL	R. Nandhine	RNardhini
	R. Padma Rekka	R. Padma Roka
	J. Vinoth Kumas.	J. vinothyn
	R. Vijaya prakash	3. 174D1.
CSE	M. Abasina	H. Alm.
	P. Abirami	P. Abirami
	E. Hari haran	Harling E
	R. Sagath Kumag	a ette of
ECE	S. Thinamurugan	8 Thurngar
	A. Sarika	A. Qy.
e e	M. Keerthika	keethka
	B. Khuthika	B. Fringth of
EEE	U. ABIRAMI	v. Aling
	S JAYADEESH	R. Lynth
	R. JAYAPRAKAESH	Withico
	G SANTHOSH	John
MECH	V. Muthu Kumaran	y. Noth
	K. Signeshuraran.	Jr. Slignesha
	R. Karthikeyan	R. Fredon
	Knishnakanth	Stanheatt

J: 60 5/3/19.



ACADEMIC YEAR 2019-20(200 SEMESTER) Student Representative Meeting with Principal

18.08.19

Minutes of Meeting

Principal convened meeting with II year student representatives on 17.08.19 with the composition of 4 members (2 boys and 2 girls) from engineering branches. With the agenda of identifying student requirements, meeting was organized. Branchwise student representations are as follows:

CIVIL

- Laboratory sessions learning / skill enrichment to be supported in a better manner.
- Survey (T) practical mapping to the course is good. Need better approaches for theoretical preparations to meet AU exams. Additional hour requirement was represented.
- FM(T) Need additional hours. Better approaches in teaching shall be given. Problems to be solved in class.
- Geology Need notes for preparation.
- Guest Lecture held recently for 8 Hrs. Feedback for the session was good. Student felt comfortable and ease inspite of continuous session. Representation was made for continuous 2 hrs. slots for subjects.

CSE

- No difficulties in courses & lab sessions.
- DPSD Advanced topics was dealt by ECE faculty.
- Representation for tap repair work at Gents toilet was made.

ECE

- Control System Additional slot requirement was represented. Boy students to be given additional guidance.
- SS additional slot requirement was represented.
- Maths Teaching is good. Homework done by students. Additional slot requirement was represented.
- Data structures Biology students need additional guidance.
- DE teaching is good.
- Representation for Classroom board size (small) was made.

EEE

- No difficulties in Maths, DLC, EMT, EDC, PPE subjects.
- EM representation for additional hours was made.

MECH

- No difficulties in Maths subject, Fluid Mecahnics, MT
- Thermodynamics class control to be established by the faculty. Teaching is good.
- Student regularity to classes is lacking.
- MT lab sessions

J. Marke 19.



ACADEMIC YEAR 2019-20 (ODD SEMESTER) Student Representative Meeting with Principal

18.08.19

Minutes of Meeting

Principal convened meeting with III year student representatives on 17.08.19 with the composition of 2 members from engineering branches. Students were directed to share their suggestions / grievances about academics and general requirements if any. Branchwise student representations are as follows

CIVIL

- Concise study material is required for open elective including diagrams.
- Syllabus completion is made as per plan.
- Waste Water Analysis lab mercury level low, chemicals shortage. Few repair and services to be undergone.
- Apr-May'19 AU exams Students unable to attend Part-C questions. Part-A questions all were found difficult for few courses.
- Time management difficulty is found among students.

CSE

- MPMC difficulty in remembering pin diagrams was made. Consolidated diagram sheet will be issued to support.
- 3 hrs Lab slots allotment was insisted.
- Local visit representation was made.
- Lab printout sheet difficulty in taking printout was represented. Steps will be taken to rectify.

ECE

- RES students found difficulty in writing theoretical paper. Guidance will be provided.
- DSP additional hours to be allotted.

EEE

• Printing machine repair status at Central Library & Ladies hostel was reported. Steps will be taken immediately.

MECH

- MM lab Instrument box and Component box with rust status was reported. Steps will be taken to rectify.
- Open Elective Diagrams printout as consolidations was represented.
- Metrology Multimedia based coverage is good.
- Student regularity to be improved
- MT problems to be discussed.

Principal insisted for regular learning among students. Guidelines regarding University examination preparations was discussed.

- Students to follow prescribed textbooks and reference books. Exercises for chapters to be practiced by students.
- Continuous Internal Assessment Test (CAT) pattern change feasibility was
 discussed. 3 hrs test covering 2 units was proposed. Students coverage of topics
 per unit will be increased and writing practice will aid them in better performance.
 Coaching classes will be planned during AN for every subject. Students scoring 70
 marks in all the subjects will be exempted from Saturday coaching classes. Students
 securing marks <60 will be attending evening coaching classes and Saturday
 coaching classes.
- Syllabus will be completed by Aug'19 end. Revision classes will be conducted after CAT. Students to utilize these slots effectively.

• Students to aim for better grade in University examinations.

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PRINCIPAL







ACADEMIC YEAR 2019-20 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives) **ATTENDANCE SHEET - II Yr. classes**

Branch	Student	Signature
CIVIL	R. Nandhini	R. Nandhiu
	R. Padma Reka	R. Padma Reka
	J. VINIOTH KURAR	J. vierat farmas
	J. Abraham Raya	J. Dalo
CSE	Hariharan. E	thehung-5
	Abisrami P	P. Abai
	Abasena M.	M. Jh
ECE	A. Sarika	A.Q.
	M. Keeythika	M. Keeofhika
	G. Prabhy	CoRolohu
,	S. THIRVMURUMAN	Thims.
EEE	K. Kasiffikayan	K. Jarthikeyan
	R. Jayaprakash	R. Gyll.
•		
MECH	R. Kaethi Kayan	R. Feshelang.
	& Swipa	& Sutya.
	<u> </u>	







ACADEMIC YEAR 2019-20 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives) ATTENDANCE SHEET – III & IV Yr. classes

Branch	Student	Signature
CIVIL	M.Soundariya, III Yr	Hosandariya.
	K.G.Guruswathik, III Yr	1/
	N. ANTONY JOE, IJ YY K.Kowsalya, IV Yr.	Nhy to
	S.Surya, IV Yr.	
CSE	K.Vengatesh Ragu, III Yr	K. Venkatesh Raghu
	E.Jeevitha, III Yr	K. Venkalesh Raghu E. Jeevitha
·	Bharanitharan.N, IV Yr.	
	Thilagavathi.S, IV Yr.	
ECE	S.Dhanasekaran, IV Yr	
	K.Priyadharsini, IV Yr.	
	U.Udayagani, III Yr.	M. Es Bless
	Melvin Charles, III Yr.	Blebun charles
EEE	S.Parthiban, IV Yr	
	R.Pavithra, IV Yr	
	S.Aadhavan, III Yr P-Gobinath	P. Comb
	N.Nandhini, II IYr	Moranethin
MECH	S.Afshal Hussain, IV Yr.	
	Chyleshwar.M, IV Yr.	
	R.Mohammed Yasin Sharif, III Y	Property of all
	D.Madhesh, III Yr.	
	K.Senthamizh Sudar, III Yr.	
	K.Shriram Sundar, III Yr. M·Satkya Noortki	H. CALLIA

INTERNAL QUALITY ASSURANCE CELL STUDENT REPRESENTATIVE MEETING – I YR CLASSES Minutes of Meeting – 09.10.19

Student Representative Meeting for First year classes was organized on 09.10.19 between 1.00pm and 2.00pm at Principal Cabin. 4 students from every branch of Engineering participated in the meeting.

Principal convened the meeting mentioning the objective of the team and directed student members to represent student issues related to academics and general issues if any. Following points were insisted during the meeting by Principal & Vice Principal

- Prescribed textbooks and reference books to be followed.
- Regular learning to be practiced. Group learning activities shall be practiced during coaching / revision classes. Peer learning support by advanced learners to other teams was also insisted.
- Motivations towards overall development activities and become eligible for campus placements was insisted.

Representations made by students

- CSE branch bi-lingual approach shall be practiced by Physics faculty for better understanding.
- Mechanical branch Physics derivations were found difficult by students. Representation was also made for additional support for maths.
- ECE branch Physics lab utilization to be made during allotted slots. Break hours shall not be utilized as lab slot. EG slots were missed due to holidays and to be compensated.

General representation

- Tamil medium students from all branches find difficulties in Technical English course. Hence, additional support is required.
- Library slots at regular time table.
- Textbook for mathematics
- Student felt happy with the disciplinary approach practiced at the institute.
- Internal events participation was insisted during the I year study period.

Students were motivated for better performance and to obtain good results in CAT-2, model and University examinations.

PRINCIPAL

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ACADEMIC YEAR 2019-20 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives)

ATTENDANCE SHEET - I Yr. classes (09/10/19)

Branch	Student	Signature	
CIVIL	B. Agalya R. Rengesumri	B. Hongeswani	
	R. Bengesenvil	R. Hongeswarie	
CSE	S. Supotha	S. In Atlany.	
	P. Deepika	P. Deepika	
ECE	SM. Swethaa	SM. Swethga.	
	S. Ramana Bhanathi	& Durana Brostothic K. Gajathj	
FFF	k. Biayathri k. Mathivanan	K. northinanan.	
EEE	KRISHNA-M·E· R·REGINA	d-delina	
МЕСН	A. Barath babu	A. Barrett babu	
	M. Signal usman Ali D. Sing balon	M. Swelveley	
	D. Han Hasan	D-Hariharan	

anoll J. Worrege







ACADEMIC YEAR 2020-21

INTERNAL QUALITY ASSURANCE CELL

STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

CIRCULAR

06.01.2021

Student Quality Circle meet is scheduled as below. Student representatives are directed to join through google meet link at 11.50am on their scheduled date.

IV Year - 07.01.2021

https://meet.google.com/mbw-khdu-uhv

III Year - 08.01.2021

https://meet.google.com/rgt-xwwe-ver

II Year - 11.01.2021

https://meet.google.com/fuc-qaye-ins

Note:

Students should join the meeting in formal dress code. IQAC department member to ensure respective students join on time.

PRINCIPAL

Copy to:

- 1. Secretary
- 2. Vice-Principal
- 3. HoDs & IQAC members

Encl: Student namelist







ACADEMIC YEAR 2020-21 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives)
BRANCHWISE STUDENTS

Branch		Student	· ·
CIVIL	7	M, Soundariya, IV Yr	
	-	K.G.Guruswathik, IV Yr	•
<u> </u> 		R.Nandhini, III Yr 🗸	
•		D.Dhinakaran, III Yr 🗸	
ŀ		R.Madhumitha, II Yr 🗸	
		M.Jeyaseelan, II Yr 🗸	-
CSE		E.Jeevitha, IV Yr	
		K.Vengatesh Ragu, IV Yr	
		T.Selvarani, III Yr 🕓	_
		E.Hariharan, III Yr 🗸	
		Fasila Afreen.J, II Yr 🦯	
<u> </u>		Gopinath.P, II Yr 🗸	
ECE		Veeralakshmi.M, IV Yr.	•
		B.Melvin Charles, IV Yr	_
		M.Kruthika, III Yr. Sazika)
		G.Prabhu, III Yr. 🗸	
		K.Gayathri, II Yr / Nothic	tha
		A.Jayakumar, II Yr Cialuba Sel	
E/EE	سمميا	S.Aadhavan, IV Yr 🦯 🥕 Sudi	ource ex
	1	N.Nandhini, IV Yr	
		U.Abirami, III Yr 🗸	
	~	R.Karthikeyan, III Yr 🗸	
		P.Pandidevi, II Yr Ramp PV	
		V.Raghu, II Yr 🗸	
MECH		R.Mohammed Yasin Sharif, IV Yr.	
	<u></u>	D.Madhesh, IV Yr. / (Abbas	r4)
	~	K.Senthamizh Sudar, IV Yr.	
	~	K.Shriram Sundar, IV Yr.	
	. 🗸	J.Venkateshwaran, III Yr 🗸	
}		S.Arunpandiyan, III Yr 🗸	
1.		L.Priyadarshan, II Yr 🗸	
		R.Kishore, Il Yr. 🗸	<u>.</u>

8-1-2021 - III yo meeting 11-1-2021 - II yo meeting 12-1-2021 - IV yo meeting







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020 - 2021 (ODD SEMESTER)

MINUTES OF STUDENT QUALITY CIRCLE MEET

18.01.2021

Departmentwise student representations regarding ODD semester courses coverage through online mode, value additional initiatives was sought.

Google meet based online meeting was scheduled classwise and organized as follows

08.01.2021 - III year classes (between 12.00 to 1.45pm)

11.01.2021 - II year classes(between 12.00 to 1.30pm)

12.01.2021- IV year classes(between 2.00 to 3.30pm)

Principal & Vice-Principal motivated students towards skill enrichment initiatives and preparation for forthcoming end-semester examinations. Useful weblinks was also shared during discussion.

General

- Few students were having signal issues / smart phone issue. In case of technical issues, students were advised to visit college 2 days / week in consent with Class coordinator adhering to safety norms.
- Students were also advised to share additional reference material (MCQs) through class
- Project works were carried out as per schedule by Final year students. Students were also directed to submit proposals for project work funding agencies.
- Final year students were also insisted to prepare for campus drives. Exclusive 1 week T&P training details was also shared.
- Students were insisted to undergo and complete SWAYAM/ NPTEL courses. Value addition initiatives to be utilized effectively
- Students were advised to follow Online examination guidelines provided by Anna University. Technical issues / phone issues to be solved. Students to ensure required bandwidth and adhere to guidelines while attending online exams.
- Students were also insisted to undergo Online internships.

K & 20000 18/1/21 **IOAC COORDINATOR**

J. 18/1/2021

Encl:

Departmentwise student representations.

DEPARTMENT OF CIVIL ENGINEERING

SI. No.	SUB. CODE	NAME OF THE SUBJECTS	STAFF NAME	REMARKS	
		II YEAR	R / III SEM		
1	MA8353	Transforms and Partial Differential Equations	Dr.Suresh	MCQ set were shared. Explanations provided.	
2	CE8301	Strength of Materials I	Mr.K.Arun	e-material & e-books were posted at Google	
3	CE8302	Fluid Mechanics	Ms.V.Ishwarya	classroom for all	
4	CE8351	Surveying	Ms.K.Bhavarohini	Additional questions	
5	CE8391	Construction Materials	Mr.R.Sundharam	were identified & used by students	
6	CE8392	Engineering Geology	Ms.T.Bhuvaneshwari	Revision classes were organized as per schedule. Students are appearing for Mode exams	
-		III YEA	R / V SEM		
1	CE8501	Design of Reinforced cement concrete elements	Mr.S.R.Elwin Guru Chanth	e-books & e-materia were posted in Google classroom MCQ set was shared	
2	CE8502	Structural Analysis I	Ms.T.Bhuvaneshwari		
3	CE8591	Foundation Engineering	Ms.M.Priya	Explanations provided	
4	EN8491	Water Supply Engineering	Ms.V.Ishwarya	for MCQ set. PPT / Video based	
5	GI8014	Geographic Information System	Ms.K.Jeyashankari	lecture sessions Revision classes, exams	
6	OA1551	Environment and Agriculture	Ms.K.Bhavarohini	are planned and handled 2 SWAYAM Course were registered by a (even sem) 23/27 were attending classes regularly	
		IV YEAJ	R / VII SEM		
1	CE8701	Estimation Costing and Valuation Engineering	Mr.S.R.Elwin Guru Chanth	E-material and MCQ were posted Students were referring additional ad	
2	CE8702	Railways, Airport, Docks & Harbour Engineering	Ms.K.Jeyashankari		
3	CE8703	Structural design and Drawing	Mr.K.Ranjith		
4	CE8011	Design of Prestressed concrete Structures	Ms.R.Revathi	MCQ sets also.	
5	OEN751	Green Building Design	Ms.M.Priya	1	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SI. No.	SUB. CODE	NAME OF THE SUBJECTS	STAFF NAME	REMARKS
	1 -	II YEAI	R / III SEM	
1	MA8351	Discrete Mathematics	Dr.R.Suresh	MCQ set along with
2	CS 8351	Digital Principles and System Design	Ms.D.Vennila	explanations was provided.
3	CS 8391	Data Structures	Mr.M.Arun	E-material and books were also shared.
4	CS 8392	Object Oriented Programming	Dr.D.Sivakumar	Few students were
5	EC 8395	Communication Engineering	Mr.Balakrishnan	having connectivity issues sometimes.
		III YEA	AR / V SEM	· · · · · · · · · · · · · · · · · · ·
1	MA 8551	Algebra and Number Theory	Mr. Sankara Kalidoss	MCQ set were given for
2	CS 8591	Computer Networks	Mr.K.Rajesh	all courses. Ample questions were
3	EC 8691	Microprocessors and Microcontrollers	Mr.Thandayuthapani	covered. E-material
4	CS 8501	Theory of Computation	Ms.S.Puvaneswari	shared.
5	CS 8592	Object Oriented Analysis and Design	Dr.S.M.Uma	• GATE questions were also covered.
6	OMF551	Product Design and Development	Ms.R.Sugantha Lakshmi	• Regularly 40/45 were attending classes.
		IV YEA	R / VII SEM	
1	MG 8591	Principles of Management	Mr.Baran Kumar	Unitwise MCQ set were Posted F metaviel
2	CS 8792	Cryptography and Network Security	Mr.S.Rajarajan	posted. E-material were also posted at Google classroom.
3	CS 8791	Cloud Computing	Ms.B.Sangeetha	NPTEL questions were also included in MCQ
4	CS 8088	Wireless Adhoc & Sensor Networks	Ms.K.Abhirami	set. GATE question set were also referred.
5	IT 8075	Software Project Management	Mr.R.Sriramkumar	• Students were appearing for Model
6	OME752	Supply Chain Management	Ms.G.Chandra Praba	exams

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

		II YE	AR / III SEM	
Sl. No.	SUB. CODE	NAME OF THE SUBJECTS	STAFF NAME	REMARKS
1	MA8352	Linear Algebra and Partial Differential Equations	Ms.T.Gnanajeya	 MCQ sets and e-materials were posted. Students
2	EC8393	Fundamentals of Data structures	Ms. S.Puvaneshwari	were also sought to discuss MCQ set during revision classes.
3	EC8351	Electronic circuits-I	Mr.S.Sivakumar	revision classes. Explanations for
4	EC8352	Signals and Systems	Mr.K.Sudarsanan	provided for question set.
5	EC8392	Digital Electronics	Mrs.R.Ponni	 Revision classes were
6	EC8391	Control systems Engineering	Mrs.U.Jeyamalar	executed as per plan
	-l + -	III Y	EAR / V SEM	
1	EC8501	Digital Communication	Mr.A.Herald	MCQ set and e-materi were shared for all
2	EC8553	Discrete Time Signal Processing	Mr.S.Ramarajan	courses. Additional
3	EC8552	Computer Architecture	Mr.R.Sathyaraj	questions set were also provided.
4	EC8551	Communication networks	Mrs.P.Thirumagal	Students sought board
5	EC 8073	Medical electronics	Dr.T.Shanthi	teaching based sessions for problem based
6	OR 0551	Renewable Energy sources	Mrs. N.Mangaiyarkarasi	 courses Classes were handled as per course plan. Online teaching-learning was found comfortable by most of the students. Few students had network connectivity issue / phone issues.
		IV Y	EAR / VII SEM	
1	EC8701	Antennas & microwave Engineering	Mr.R.Balakrishnan	MCQ set including GATE questions were discussed.
2	EC8751	Optical communication	Mr.T.Pasupathi	and posted. E-materials
3	EC8791	Embedded and real time Systems	Mr.T.Jeyaseelan	were provided. Two SWAYAM courses
4	EC 8702	Ad-hoc and wireless sensor networks	Mr.P.Rajapirian	were registered by students.
5	EC 8092	Advanced Wireless communication	Mr.R.Sathyaraj	
6	OIC751	Transducer Engineering	Mrs.U.Jeyamalar	

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

-		II YE.	AR / III SEM	
Sl. No.	SUB. CODE	NAME OF THE SUBJECTS	STAFF NAME	REMARKS
1	MA8353	Transforms and Partial Differential Equations	Mr.G.Jeyakrishnan	MCQ set covering GATE questions was provided.
2	EE8351	Digital Logic Circuits	Mrs.D.Vennila	E-material was posted for
3	EE8391	Electromagnetic Theory	Mrs.N.Rajeswari	all courses. No long absentees
4	EE8301	Electrical Machines - I	Mr.C.John Selvaraj	To long absences
5	EC8353	Electron Devices and Circuits	Mr.W.Newton David Raj	
6	ME8792	Power Plant Engineering	Mr.J.Arokiaraj	
		III YE	EAR / V SEM	
1	EE8501	Power System Analysis	Dr.S.Sivakumar	• MCQ sets with
2	EE8551	Microprocessors and Microcontrollers	Dr.M.Meenalochani	explanations was provided. E-material were
3	EE8552	Power Electronics	Mr.S.R.Karthikeyan	also shared. • Revision classes were also
4	EE8591	Digital Signal Processing	Mr.K.Sudharsan	handled.
5	CS8392	Object Oriented Programming	Mrs.R.Ranitha	3 students had network
6	OMD551	Basics of Biomedical instrumentation	Mr.R.Sundaramoorthi	issue / phone issue.
		IV YEA	AR / VII SEM	
1	EE8701	High Voltage Engineering	Mr.S.Sakthivel	Unitwise MCQ set were
2	EE8702	Power System Operation and Control	Mrs,N,Arulmozhi	posted. E-material were also posted at Google
3	EE8703	Renewable Energy Systems	Dr.A.Albert Martin Ruban	classroom 2 students had network
4	OCS752	Introduction to C programming	Mr.R.Rajarajan	issues.
5	GE8071	Disaster Management	Mr.B.Suresh Babu	
6	EE8010	Power Systems Transients	Mr.S.R.Karthikeyan	*

DEPARTMENT OF MECHANICAL ENGINEERING

		II YEA	AR / III SEM	
Si. No.	SUB. CODE	NAME OF THE SUBJECTS	STAFF NAME	REMARKS
1	MA 8353	Transforms and Partial Differential Equations	Dr. Ramya	 Unitwise MCQ set and e- material was provided.
2	ME 8391	Engineering Thermodynamics	Mr.H.Agilan	Students were insisted to take printout and prepare.
3	CE 8394	Fluid Mechanics and Machinery	Mr.B.Adhichelvan	GATE questions was covered in MCQ set
4	ME 8351	Manufacturing Technology - I	Mr.S.Karthi	Few students were finding
5	EE 8353	Electrical Devices and Controls	Mr.C.John Selvaraj	network issues / phone issues.
		III YI	EAR / V SEM	
1	ME 8595	Thermal Engineering - II	Mr.S.Desigan	MCQ set and explanations was provided. For
2	ME 8593	Design of Machine Elements	Mr.V.Vijayakumar	problem based courses, hints were provided for
3	ME 8501	Metrology and Measurements	Mr.Melwin	PART-B questions
4	ME 8594	Dynamics of Machines	Mr.J.Rajaparthiban	Videos /PPT were also shared
5	OAT 552	ICE	Mr.P.P.Santharaman	GATE question were included in MCQ set.
	_,		EAR / VII SEM	
1	ME 8792	Power Plant Engineering	Dr.T.Pushparaj & Dr.P.P.Shantharaman	Unitwise MCQ set were posted. E-material were
2	ME 8793	Process Planning and cost Estimation	Mr.S.Sabanayagam	also posted at Google classroom
3	ME 8791	Mechatronics	Mr.M.Sakthivel Mr.Desigan.S	
4	OIE 750	Robotics	Mr.B.Ramvignesh	
5	ME 8097	Non Destructive Testing and Evaluation	Mr.N.Magesh Mr.V.Vijayakumar	
6	GE 8077	Total Quality Management	Mr.N.Sudhakar	







ACADEMIC YEAR 2020-21 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives)
BRANCHWISE STUDENTS

Branch	Student	
CIVIL	1.Soundariya, IV Yr	
	K.G.Guruswathik, IV Yr	
	R.Nandhini, III Yr	
	D.Dhinakaran, III Yr	
	R.Madhumitha, II Yr	
	M.Jeyaseelan, II Yr	
CSE	E.Jeevitha, IV Yr	
	K.Vengatesh Ragu, IV Yr	
	T.Selvarani, III Yr	
	E.Hariharan, III Yr	
	Fasila Afreen.J, II Yr	
	Gopinath.P, II Yr	
ECE	Veeralakshmi.M, IV Yr.	
	B.Melvin Charles, IV Yr.	
	M.Kruthika, III Yr.	
	G.Prabhu, III Yr.	
	K.Gayathri, II Yr	
:	A.Jayakumar, II Yr	
EEE	S.Aadhavan, IV Yr	
	N.Nandhini, IV Yr	
	U.Abirami, III Yr	
	K.Karthikeyan, III Yr	
	P.Pandidevi, II Yr	
	V.Raghu, II Yr	
MECH	R.Mohammed Yasin Sharif, IV Yr.	
:	D.Madhesh, IV Yr.	
	K.Senthamizh Sudar, IV Yr.	
	K.Shriram Sundar, IV Yr.	
	J.Venkateshwaran, III Yr	
	S.Arunpandiyan, III Yr	
	L.Priyadarshan, II Yr.	
	R.Kishore, II Yr.	



INTERNAL QUALITY ASSURANCE CELL ACADEMIC 2020-21 (EVEN SEMESTER)

05.06.21

QUALITY CIRCLE MEET MoM (IV Year classes)

Quality Circle Meeting for 2020-21 even semester comprising IV year class representatives was held online on 01.06.21 between 11.00am to 01.00pm. IQAC coordinator welcomed the gathering and invited student members to share their representations related to academics, examinations and related matters. 2 members from all UG IV classes attended the meeting. Since it was the last Quality circle meet of 2017-2021 batch, students also shared about their experiences at KCE.

Principal motivated students to utilize descriptive pattern of Anna University examinations. Principal insisted about adherence to Anna University guidelines and readiness with required study materials for AU exams. Utilization of course plan to identify topicwise content from books was also insisted. Vice-Principal briefed about revised AU examination guidelines to students. KCE contact persons related to AU exams was also shared to students for any queries. Students were also insisted to be ready with required stationeries for AU exams.

Recommendation of the following sites for student reference was shared Easyengineering.net – all engineering books and materials

Clear scan app – to scan documents and generate pdf

Google meet id: meet.google.com/ucn-oxzi-fbx

Departmentwise representations / opinions shared

Civil department

M.Soundariya, K.G.Guruswathik represented Civil department

- Guruswathik, GATE scorer of 2017-21 batch, shared his preparatory experiences.
 Utilization of lockdown period since May'20 was the key factor. From May'20 till
 Dec'20 daily preparations was made (10 hours -3 hours per day). From Jan'21,
 series of online tests was attempted. He suggested students to start preparation
 from I year onwards, especially Maths, Aptitude papers. He also mentioned
 about his efforts towards Indian Engineering Services preparations.
- Soundariya mentioned about her likes towards practices of KCE: KoK award and Parent awarding degree to wards during convocation.
- Members represented juniors to utilize the wide learning opportunities available at KCE. Students to make use of various efforts taken by the institute.

CSE department

E.Jeevitha, K.Venkatesh Ragu represented CSE department

- Teaching is good at KCE. Learning materials are prepared well in advance and circulated to students.
- VII semester exams tough, grade dropped (represented by Jeevitha)
- 6 days intensive T&P training offered during IV year was useful.
- Members also requested for regular aptitude practice exercises (Moderate, complex levels) right from II year onwards.

ECE department

Veeralakshmi.M, B.Melvin Charles represented ECE department

- Utilization of College library and textbooks was realized during III year. Juniors to utilize right from I year onwards. (represented by Melvin).
- School like practices helped in better preparations.
- VII semester exams tough grade dropped
- Teaching is good at KCE. Staffs also good.
- More test practices is good
- Staff material preparations is good
- Convocation practice is good
- Students to recognize the efforts made towards students and utilize

EEE department

N.Nandhini, Sudharsanan represented EEE department

- Practices like school is for the betterment of students
- Facilities at KCE is good
- Counseling & student attention is good
- Staff members are flexible and ready to get the voices of students
- IV year study was little tough due to online classes.
- Industry question papers can be circulated and practiced by students.
- Teaching is good
- Represented for sports activities (due to covid last 2 sem activities were not
- Student to cooperate with staff. Staff followup is good.

Mechanical department

R.Mohammed Yasin Sharif, Abbas Mohammed, K.Senthamizh Sudar, K.Shiram Sundar represented MECH department

- Learning materials are given.
- Rules are tough but good for students
- Staff involvement is good
- Unique qualities of staffs has helped students in the learning process
- Individual attention is given
- Slow learners were also able to do technical rounds of interview process.
- Regular IV year classes was missed (due to covid conducted via online).

- Students need writing practice
- Right from I year study period, subject staff motivated a lot. Other department staffs also guided and motivated
- Experiences at KCE is useful to face life. All good things was learnt at KCE. Staff guided even when did mistakes.
- All student representations were addressed
- Parent like approach was provided.
- Representation about work place experience was shared.

Keller 5/6/2/ IQAC COORDINATOR S. PRINCIPAL



INTERNAL QUALITY ASSURANCE CELL ACADEMIC 2020-21 (EVEN SEMESTER)

05.06.21

QUALITY CIRCLE MEET MoM (III Year classes)

Quality Circle Meeting for 2020-21 even semester comprising III year class representatives was held online on 02.06.21 between 02.00pm to 03.00pm. IQAC coordinator welcomed the gathering and invited student members to share their representations related to examinations and related matters. 2 members from all UG III classes attended the meeting.

Principal motivated students to utilize descriptive pattern of Anna University examinations. Principal insisted about adherence to Anna University guidelines and readiness with required study materials for AU exams. Utilization of course plan to identify topicwise content from books was also insisted. Vice-Principal briefed about revised AU examination guidelines to students. KCE contact persons related to AU exams was also shared to students for any queries. Students were insisted to utilized 3 hours slot in a planned manner and attend all questions.

Recommendation of the following sites for student reference was shared Easyengineering.net – all engineering books and materials Pdfdrive.com- engineering books
Clear scan app – to scan documents and generate pdf
Readera app – book reader with a provision of bookmarking

Google meet id: meet.google.com/etg-veit-eya

Departmentwise representations / opinions shared

Civil Department

R.Nandhini, D.Dhinakaran

- Materials were shared through Google classroom
- AU guidelines session was organized by department.
- Online classes went on well.

CSE Department

T.Selvarani, E.Hariharan

- Online classes were good. Material was shared
- Exam practice is good. Time management is to be made carefully

ECE Department

Sarika, G.Prabhu

- Online classes went on well.
- Materials available
- Preparation for lab exams was raised and was explained to students.

EEE Department

U.Abirami, Jayaprakash, Karthikeyan

- Materials and books were shared
- Students to utilize exams.
- All students to take up AU exams without fail.

Mechanical Department

J.Venkateshwaran, S.Arunpandiyan

- Online classes went on well.
- Fee payment & Transport clarification was sought by a student.

Colleus 6/2/
IQAC COORDINATOR

PRINCIPAL







INTERNAL QUALITY ASSURANCE CELL ACADEMIC 2020-21 (EVEN SEMESTER)

05.06.21

QUALITY CIRCLE MEET MoM (I Year classes)

Quality Circle Meeting for 2020-21 even semester comprising I year class representatives was held online on 04.06.21 between 12.15pm to 01.15pm. IQAC coordinator welcomed the gathering and invited student members to share their representations related to examinations and related matters. 2 members from all UG I classes attended the meeting.

Principal motivated students to utilize descriptive pattern of Anna University examinations. Principal insisted about adherence to Anna University guidelines and readiness with required study materials for AU exams. Utilization of course plan to identify topicwise content from books was also insisted. Best of 2 option for Nov-Dec 2020 exam provision was declared on 02.06.21. Hence, students were insisted to utilize the provision and raise their grades. Vice-Principal briefed about revised AU examination guidelines to students. Students were insisted to utilized 3 hours slot in a planned manner and attend all questions.

Recommendation of the following sites for student reference was shared Easyengineering.net – all engineering books and materials

Pdfdrive.com- engineering books

Clear scan app – to scan documents and generate pdf

Readera app – book reader with a provision of bookmarking

Google meet id: meet.google.com/ucx-vqdv-sne

Departmentwise student representations

CIVIL department

Bharath.G, Maharish.H

- Classes going on smooth
- Materials shared
- Attending classes will make learning easier
- Exam modalities informed and known to all

CSE department

Bhavatharini.V, Gayathri.M

- No difficulties, classes going on well
- Materials available

ECE department Ajay.A, Shanmugapriya.V

EEE department

Sneha, Gushendra Prasath

- 5 periods Online classes datapack difficulty for few was represented. Break hours was represented.
- Seminar presentation slots were utilized well. Few students represented for flexibility in it. Members were explained about the purpose of overcoming stage fear and to improve presentation skills, such practices are followed.
- Staff motivations are good.

Mechanical department

Hemanathan.E, Samikannan.M

- Classes going on well. Materials were shared.
- Student absenteeism was represented.

IQAC COORDINATOR

2. Lend 1/2001.

PRINCIPAL







INTERNAL QUALITY ASSURANCE CELL ACADEMIC 2020-21 (EVEN SEMESTER)

05.06.21

QUALITY CIRCLE MEET MoM (II Year classes)

Quality Circle Meeting for 2020-21 even semester comprising II year class representatives was held online on 03.06.21 between 02.00pm to 03.00pm. IQAC coordinator welcomed the gathering and invited student members to share their representations related to examinations and related matters. 2 members from all UG II classes attended the meeting.

Principal motivated students to utilize descriptive pattern of Anna University examinations. Principal insisted about adherence to Anna University guidelines and readiness with required study materials for AU exams. Utilization of course plan to identify topicwise content from books was also insisted. Best of 2 option for Nov-Dec 2020 exam provision was declared on 02.06.21. Hence, students were insisted to utilize the provision and raise their grades.

Vice-Principal briefed about revised AU examination guidelines to students. KCE contact persons related to AU exams was also shared to students for any queries. Students were insisted to utilized 3 hours slot in a planned manner and attend all questions. Students were demonstrated about pdf files submitted by students (do's and don'ts was elaborated)

Recommendation of the following sites for student reference was shared Easyengineering.net – all engineering books and materials Pdfdrive.com- engineering books

Clear scan app – to scan documents and generate pdf

Readera app – book reader with a provision of bookmarking

Google meet id: meet.google.com/ppw-jssa-wdu

Departmentwise student members

Civil Department
R.Madhumitha, M.Jeyaseelan
CSE Department
Fasila Afreen.J, Varun
ECE Department
K.Gayathri, Nithitha, Sarika, G.Prabhu

EEE Department Regina, Pandidevi.P Mechanical Department L.Priyadharshan, R.Kishore

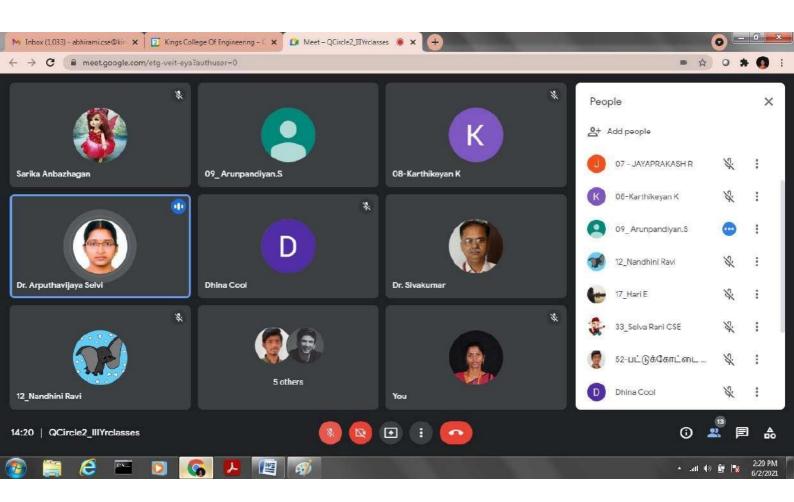
Student representations

- Online classes went on well
- Materials and books were shared through GCR
- · Revision classes for ODD semester courses
- Exam procedures were informed

K- When 5/6/2

J. 1005/6/2021.

PRINCIPAL





EXIT SURVEY







6.5.2 STUDENT QUALITY CIRCLE OVERALL FEEDBACK

INDEX PAGE

S.NO	ACADEMIC YEAR	PAGE NO
1	YEAR 2020-21	2-9
2	YEAR 2019-20	10-17
3	YEAR 2018-19	18-20







ACADEMIC YEAR – 2020-21 INTERNAL QUALITY ASSURANCE CELL EXIT SURVEY REPORT (2017-21 BATCH)

QUESTIONNAIRE

About Infrastructural Facilities (5 being highest)

- 1. How do you rate classroom ambience (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 2. How do you rate Lab facilities (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 3. How do you rate Library facilities (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 4. Transport Facility if availed (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 5. Hostel facility if availed (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

About Teaching-Learning -Assessment practices (5 being highest)

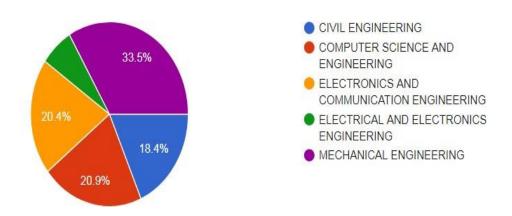
- 1. Question Bank structure, content & usage(1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 2. Lab Manual structure, content & usage (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 3. e-Material content & usage (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 4. Teaching methodology adopted by faculty members (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 5. Do you agree Learning Outcome for the courses is met (Strongly agree, Agree, Neutral, Disagree, Strongly disagree)
- 6. Any specific recommendation / suggestions / appreciations related to Teaching-Learning practices
- 7. Any specific recommendation/ suggestions related to learning materials
- 8. Rate Student Skill Enrichment practices (scale 1-5, Fair (1)-Extremely good (5))
- 9. Rate effectiveness of Internal Counseling sessions(scale 1-5, Fair(1)-Extremely good(5))
- 10. Rate provision of student feedback, suggestions system and its impact (scale1-5, Fair(1)-Extremely good(5))
- 11. How do you rate assessment practices (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 12. Fairness and transparency of assessment & evaluation practices (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

RESPONSES SUMMARY

Branchwise Responses (206 students, Civil – 38, CSE – 43, ECE- 42, EEE-14, Mechanical -69)

Branch studied

206 responses



About Infrastructural Facilities (5 being highest) 1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good

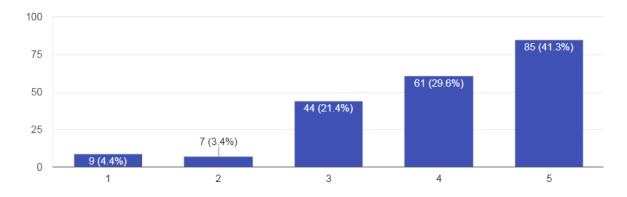
S.No	Question	1	2	3	4	5
1	How do you rate classroom ambience	4.4	3.4	21.4	29.6	41.3
2	How do you rate Lab facilities	5.3	8.7	25.7	24.3	35.9
3	How do you rate Library facilities	2.4	4.4	19.9	31.1	42.2
4	Transport Facility - if availed	6	8	25.4	26.4	34.3
5	Hostel facility - if availed	9.9	7.3	25.1	19.9	37.7

About Teaching-Learning -Assessment practices (5 being highest)

Qn.	Feedback regarding	1	2	3	4	5
1	Question Bank structure, content & usage	1.9	1.9	18.9	33	44.2
2	Lab Manual structure, content & usage	1	4.9	18.4	33	42.7
3	e-Material content & usage	5.3	2.9	19.9	30.1	41.7
4	Teaching methodology adopted by faculty members	1.5	1. 9	22.8	28.2	45.6
5	Do you agree - Learning Outcome for the courses is met	23.8	2.4	29.6	39.3	4.9
6	Rate student skill enrichment practices	2.9	1.9	23.3	30.1	41.7
7	Rate effectiveness of Internal counseling sessions	1.5	4.4	17	33.5	43.7
8	Rate provision of student feedback, suggestions system and its impact	2.9	5.3	23.3	28.6	39.8
9	How do you rate assessment practices	1.9	4.4	23.3	33.5	36.9
10	Fairness and transparency of assessment & evaluation practices	1.5	3.9	20.9	36.4	37.4

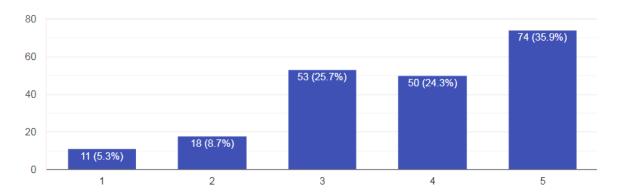
QUESTIONWISE RESPONSES

How do you rate classroom ambience (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)



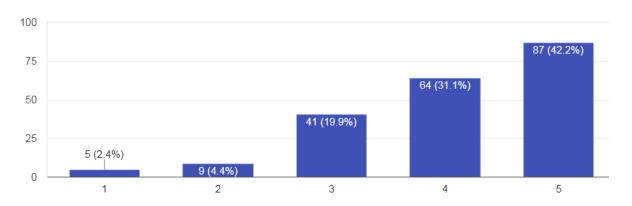
How do you rate Lab facilities (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

206 responses

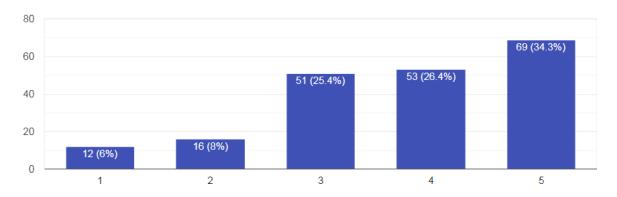


How do you rate Library facilities (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

206 responses

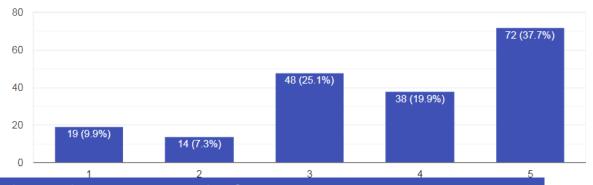


Transport Facility - if availed (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)



Hostel facility - if availed (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

191 responses

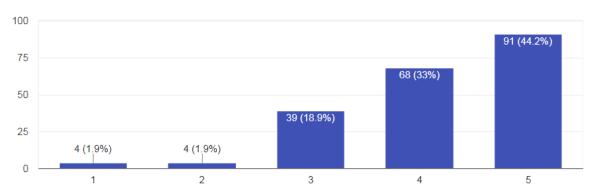


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About Teaching-Learning -Assessment practices & Support system

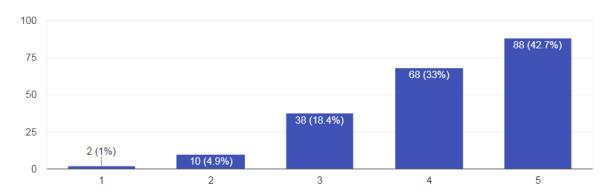
Question Bank structure, content & usage(1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

206 responses

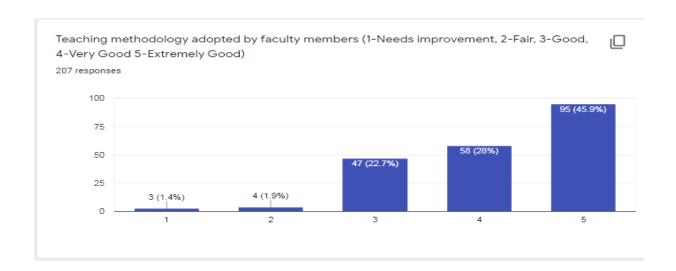


Lab Manual structure, content & usage (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

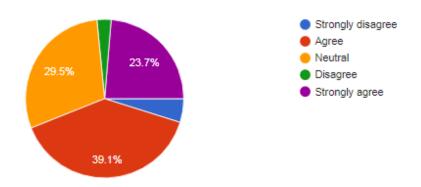
206 responses



e-Material content & usage (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

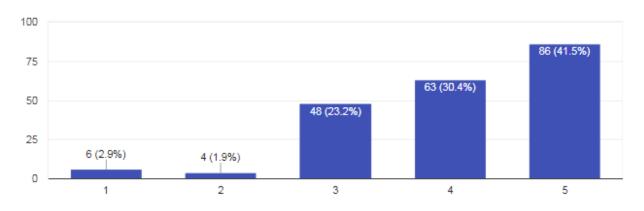






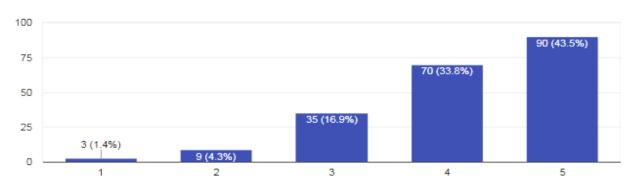






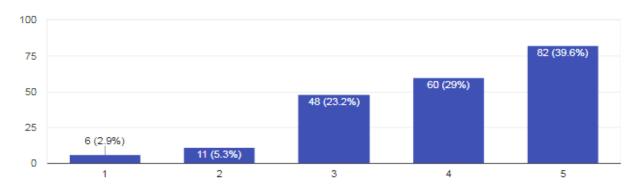


207 responses

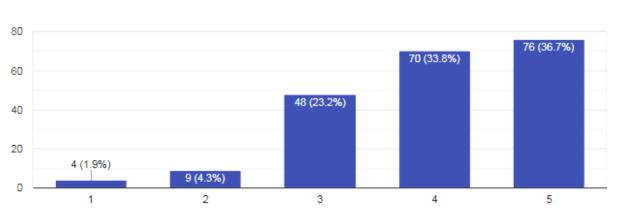


Rate provision of student feedback, suggestions system and its impact

207 responses

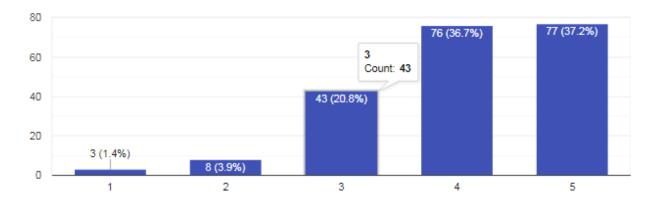


How do you rate assessment practices (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)



Fairness and transparency of assessment & evaluation practices (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)











ACADEMIC YEAR – 2020-21 (ODD sem) INTERNAL QUALITY ASSURANCE CELL

EXIT SURVEY REPORT (2016-20 BATCH)

QUESTIONNAIRE

About Infrastructural Facilities (5 being highest)

- 1. How do you rate classroom ambience (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 2. How do you rate Lab facilities (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 3. How do you rate Library facilities (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 4. Transport Facility if availed (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 5. Hostel facility if availed (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

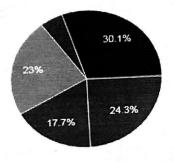
About Teaching-Learning -Assessment practices (5 being highest)

- Question Bank structure, content & usage(1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 2. Lab Manual structure, content & usage (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 3. e-Material content & usage (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 4. Teaching methodology adopted by faculty members (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- Do you agree Learning Outcome for the courses is met (Strongly agree, Agree, Neutral, Disagree, Strongly disagree)
- 6. Any specific recommendation / suggestions / appreciations related to Teaching-Learning practices
- 7. Any specific recommendation/ suggestions related to learning materials
- 8. How do you rate assessment practices (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)
- 9. Fairness and transparency of assessment & evaluation practices (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

RESPONSES SUMMARY

Branchwise Responses (226 /248)

Branch studied 226 responses



- CIVIL ENGINEERING
- COMPUTER SCIENCE AND ENGINEERING
- ELECTRONICS AND COMMUNICATION ENGINEERING
- ELECTRICAL AND ELECTRONICS ENGINEERING
- MECHANICAL ENGINEERING

CIVIL - 55/55 CSE - 39/39 ECE - 52/53 EEE - 11/11 MECH - 68/88

About Infrastructural Facilities (5 being highest) 1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good

Question	1	2	3	4	5
How do you rate classroom ambience	5.3	4.4	29.2	27.9	33.2
How do you rate Lab facilities	12.4	8	25.2	23.5	31
	3.5	5.8%	19%	22.6%	29.1%
Transport Facility - if availed	20	24%	23%	26.5%	31%
	13.3	9.3	23.9	24.8	28.8
	10.9	10.3	24.06	25.06	30.62
	How do you rate classroom ambience How do you rate Lab facilities How do you rate Library facilities	How do you rate classroom ambience 5.3 How do you rate Lab facilities 12.4 How do you rate Library facilities 3.5 Transport Facility - if availed 20 Hostel facility - if availed 13.3	How do you rate classroom ambience 5.3 4.4 How do you rate Lab facilities 12.4 8 How do you rate Library facilities 3.5 5.8% Transport Facility - if availed 20 24% Hostel facility - if availed 13.3 9.3	How do you rate classroom ambience 5.3 4.4 29.2 How do you rate Lab facilities 12.4 8 25.2 How do you rate Library facilities 3.5 5.8% 19% Transport Facility - if availed 20 24% 23% Hostel facility - if availed 13.3 9.3 23.9	Question 1 2 3 How do you rate classroom ambience 5.3 4.4 29.2 27.9 How do you rate Lab facilities 12.4 8 25.2 23.5 How do you rate Library facilities 3.5 5.8% 19% 22.6% Transport Facility - if availed 20 24% 23% 26.5% Hostel facility - if availed 13.3 9.3 23.9 24.8

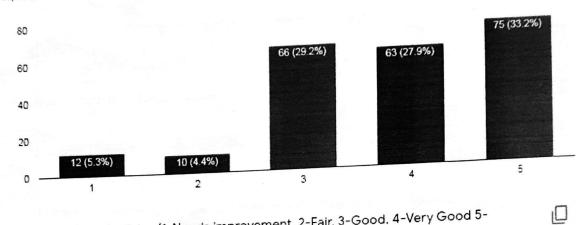
About Teaching-Learning -Assessment practices (5 being highest)

	About Teaching-Learning Asset	1	2	3	4	5	
n.	Feedback regarding		4.4	20.4	22.1	49	9.6
	Question Bank structure, content &	3.5	4.4	20.1			
	usage	2.7	8	20.8	28.8	4	4.2
	Lab Manual structure, content &	2.7					
	usage	6.2	6.2	24.8	23.9	3	8.9
3	e-Material content & usage	0.2		18.6	30.1	4	1.2
	Teaching methodology adopted by	6.2	4	18.6	30.2		
4	faculty members	1		20.6	45.6	-	19
	Do you agree - Learning Outcome for	3.1	2.7	29.6	45.0	120, 200	
5	the courses is met						
		1		Attacl	nea		
6	Any specific recommendation / suggestions / appreciations related to Teaching-Learning practices						
		,		Attac	hed		
7	Any specific recommendation suggestions related to learnin	g g					,
	materials		2.7	23.9	27	.4	40.3
8	How do you rate assessment practice	5.8	2.7		29	6	36.7
	and transparency	of 4.9	6.6	22.1	29	.0	30.7
9	assessment & evaluation practices		and Tanana		201 20	9.64%	38.55%
		4.60	4.99	6 22.88	3% 2:	7.0470	30.52

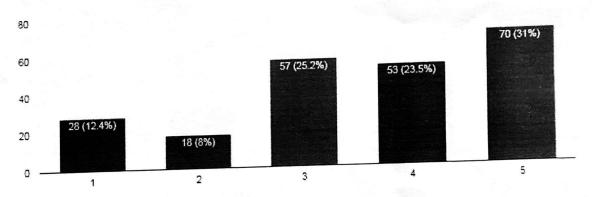
QUESTIONWISE RESPONSES

How do you rate classroom ambience (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

226 responses

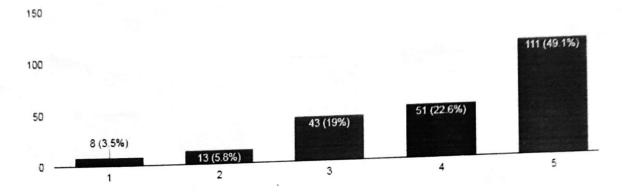


How do you rate Lab facilities (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

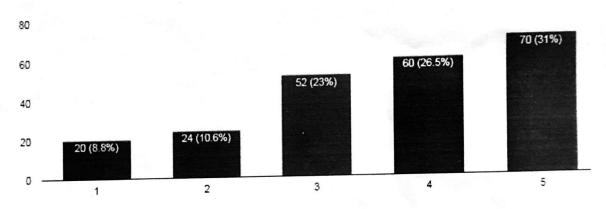


How do you rate Library facilities (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

226 responses

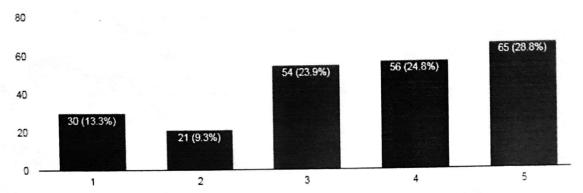


Transport Facility - if availed (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)



Hostel facility - if availed (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

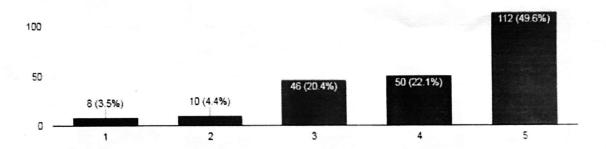
226 responses



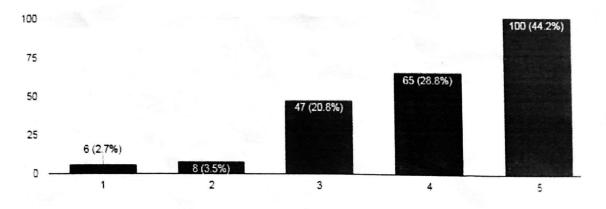
Question Bank structure, content & usage(1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

226 responses

150

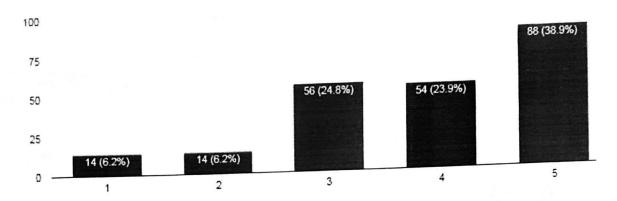


Lab Manual structure, content & usage (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)



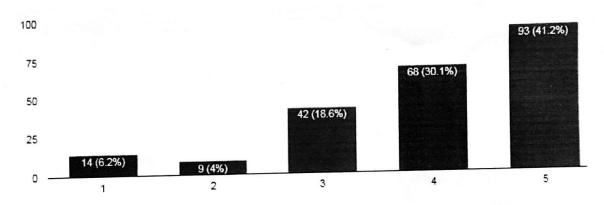
e-Material content & usage (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

226 responses

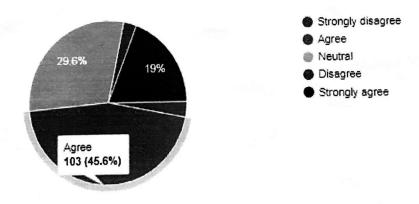


Teaching methodology adopted by faculty members (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

226 responses

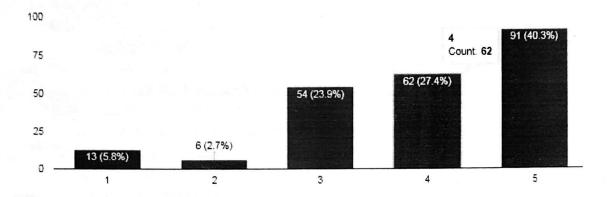


Do you agree - Learning Outcome for the courses is met 226 responses



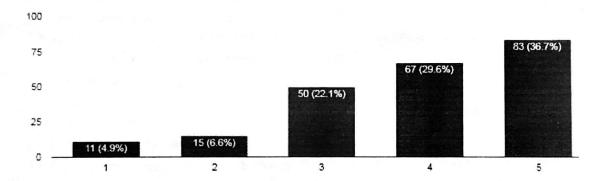
How do you rate assessment practices (1-Needs improvement, 2-Fair, 3-Good, 4-Very Good 5-Extremely Good)

226 responses



Fairness and transparency of assessment & evaluation practices (1-Needs improvement, 2-Fair. 3-Good. 4-Very Good 5-Extremely Good)

226 responses



IQAC COORDINATOR

L

PRINCIPAL



ACADEMIC YEAR 2018-19 (EVEN SEMESTER) Student Representative Meeting with Principal

05.03.19

Minutes of Meeting

Principal convened meeting with IV year student representatives on 04.03.19 with the composition of 2 overall performers, 1 average and 1 slow learner from engineering branches. Students were given open platform to share their experiences at the campus for 4 years period. Students were also directed to share suggestions if any.

Branchwise student representations are as follows

CIVIL

- Learning experience was joyful.
- **Appreciated the practices** of Value Added courses, My Credit Course, Library resources, Competency Development classes
- Structure of Question bank and it content was appreciated.
- Student from Chennai based mentioned about the usefulness of coaching classes.
- Syllabus coverage and Assessment practice was appreciated.
- Representation for **Cultural programmes** to be continued was raised.
- Represented about their comfort for color dress over uniform.
- Sports event participation other than zonal matches was represented.
- Placement opportunities was represented. (efforts are taken)

CSE

- Coaching & Saturday classes though found tough initially was effective and useful.
- Goolge classroom practice is good.
- Question bank is good. Guidance by staff is good.
- · Revision classes are very useful.
- Coding by student can be encouraged more.
- Initiatives for communication skills improvement was represented.
- Training sessions / provision for GMAT / GRE / IELTS / UPSC exams shall be arranged.

- Arrear students to be motivated for external event participation. OD not to be sanctioned based on arrear.
- Lab printout sheet size can be set as the size of A4. Find difficulties in taking printout.

ECE

- Care and guidance is good.
- College timing is comfortable.
- Representation for Assessment answer script correction can be made by staff not handling class / course
- Weekly test during T&P hours. Additional practice for aptitude skills.
- Library Computing system issue due to virus was mentioned. (Steps taken to resolve).
- Students represented for Dispensary facility. (Steps will be taken)

EEE

- Need printout facility at Library
- Question bank distribution can be made little earlier.
- Student friendly approach is good.

MECH

- **CNC Machine** utilization can be enhanced. Service pack alone utilized. Other labs are OK
- Overall development activities was appreciated and found effective. Stage fear defeated. Motivations for overall growth at KINGS is good. 18th ISTE provided platform to stage and then continued with other events.
- Assignment Presentation Hour (APH) is useful. To be continued effectively,
- Graduation Day certificate by Parents is good.
- **Staff-Student relationship** is good. Staff members are motivating and supporting for overall growth of students.
- ALUMNI interaction sessions are useful.

Principal & Vice-Principal insisted for student preparation towards placement opportunities. **Examiniation** preparation guidelines was shared. Mathematics arrear coaching sessions to be utilized. Principal appreciated the batch for their performance, wished students for better performance in exams and successful career.

RE

J. PRINCIPAL







ACADEMIC YEAR 2018-19 STUDENT REPERSENTATIVE MEETING WITH PRINCIPAL

(Towards Quality improvement initiatives) **ATTENDANCE SHEET – IV Yr. classes**

Branch	Student	Signature
CIVIL	A. Neka	4. Daker
	5 Amar Selvas	3.DHH
	11. Sun Diyan	M. Opyy.
	S. Varanth	Wite's
CSE	S. Braneshwari	Cari
	S. Yuvalak Shmi Preya	84
	Mohan Kumaar. S	(As)
	B. Janparakal	Bitapapl
ECE	B. Jayaprakouly J. Tamilselvan	J. Beel
	N. vigneshway	N familias
	G Anitha	().A)
	K. GIAYATHRY	J. Gues
EEE	K. Muthuraena	K. act
	R. Baranika	R. Balenten
	J. Dhinesh	5. Buil
	B. Rohinsh.	8. Polich
МЕСН	R.R. PRAVIN	RR Bala
	M.B. Santhash	4. RSalo
	GI ALEXRAJA	G. Alewaja
	R. SIVA PRASATH	Rdigitta

J: 80 mmt



REVIEW PROCESS: II TLP PROCESS REVIEW



SYLLABUS COMPLETION REVIEW







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2019-2020/ EVEN SEMESTER

(A15) (A)			Statu	s of syliabus cove	erage as on -	- 17.03.202	20			· 篇: 74.
	rtment	BCE WEST	Branch	A CONTRACTOR	Y	ear			Sec	The second second
Class Co-d	s ordinator	A.HEPALD	Mentor	s.sivak	umar,	War and the	P. Pol	าที	K. sud	arsana
SI. No.	Subject Code	Name of the Subject	Staff Name	Units Covered	Hours planned	Hours taken	No.of Hrs Req.to complete remaining portions	Reasons for deviation	Verification of student notes	Signature of faculty
1.	MA8451	Probability and Random Processes	Mr.Jeyakrishnan	5	65	66		The second second	Yen	(AP)
2.	EC8452	Electronic Circuits II	Mrs.U.Jeyamalar	5	50	52			Yes	Q
3.	EC8491	Communication Theory	Mr. S. Ramarajan	5	50	50			yes	2-4
4.	EC8451	Electromagnetic Fields	Mrs. P. Thirumagal	5	60	62			Yes	P. Del.
5.	EC8453	Linear Integrated Circuits	Mr. A. Herald	5	50	51			78	10-14
6.	GE8291	Environmental Science and Engineering	Dr.V.Suresh kumar	5	50	50	-i.v.)		7-45	nd
SI. No.	Lab Subject Code	Name of the Laboratory	Staff Name	Experiment completed	Hours planned	Hours taken	No.of Hrs Req.to complete remaining portions	Reasons for deviation	Verification of observation / Records	Signature of faculty
1.	EC8461	Circuits Design and Simulation Laboratory	Mr. S. Ramarajan/ Mrs.U.Jeyamalar	B1:37(07) B1:42(08)	B1:37 B2:42	B1:37 B2:42	1 - 1 3		yes	2-1
2.	EC8462	Linear Integrated Circuits Laboratory	Mr. A. Herald	B1: 11 B2: 9	B1: 42 B2: 37	B1:42 B2:37			yes	nova

12. H 2 6

Class Co-ordinator

Head of the Department

J. 1800 200

Principal



A NA 1C Accredited Institution COLLEGE OF ENGINEERING Recognized under 2(f) & 12(B) of UGC Approved by AICTE, New Delhi Affiliated to Anna University, Chennai



Dena	rtment	**************************************	Statu	is of syllabus	coverage as	on 13.03.2	.020		1	4 6
	Co-ordinato		ENGINEERING	I die	Year	IV	551	Sec		
ciass	co-ordinato	r Mr.K.	Arun	Maria Salatina	Mentor	1.K.Bha	vaRohini	2. M. PRIYA	3. S. K, E	Twin Grew che
SI. No	Code	Name of the Subject	Staff Name	Units Covered	Hours planned	Hours taken	No. of Hrs Req. to complete remaining portions	Reasons for deviation	Verificati on of student notes	Signature of faculty
1.	MG6851	Principles of Management	Mr.B.Barankumar	05	50	56	_	6 Res Position	703	Blogs
2,	CE6016	Prefabricated Structures	Mr.K.Arun	05	50	59	- 40	9 kg Pevisûn	Yes	My S
3.	CE6021	Repair & Rehabilitation of Structures	Ms.R.Revathi	05	50	57		7 hrs. Revision	yes	Qui
	14		10 To	PF	RACTICAL	13		A .		
4.	CE6811	Project Work	Mr.K.Arun	Thord	180	142	-	More helders	Yes	Mi
5	RFC	Refresher Course	Ms.R.Revathi Ms.T.Bhuvaneswari	completes	14	14	1 -	-	Yes	D

CLASS COORDINATOR







			Status of	syllabus c	overage	as on -	08.10.19			
Departm	ent	CSE			Y	ear	II	1:	Sec A	
Class Co-	ordinator	Mr.S.Rajaraj	an		Mento	r Dr.D.	Sivakumar	Ms.K.Ab	hirami	
Sl.No.	Name of the S		Staff Name	Units Covered	Hours planned	Hours taken	No. of Hrs Req. to complete remaining portions	Reasons for deviation	Verification of student notes	Signature of faculty
1.	MA8351/Discr Mathematics	rete	Ms.S.Geetha	5	65	65	-	-	yes	01
2.	CS8351/Digita and System De	-	Mr.S.Rajarajan	5	65	65	-	-	yes	Whot
3.	CS8391/Data	Structures	Ms.K.Abhirami	5	55	56	-		yes	Kidle
4.	CS8392/Objection Programming		Dr.D.Sivakumar	5	50	50	-	-	yes	- Dan
5.	EC8395/Com Engineering	munication	Mr.T.Jeyaseelan	5	50	51	-	-	yes	Fr=
Sl.No.	Name of th	ne Lab / Code	Staff Name	Experiment completed	Hours planned	Hours taken	No. of Hrs Req. to complete remaining portions	Reasons for deviation	Verification of observation / Records	Signature faculty
1.	CS8381/Data Laboratory	a Structures	Mr.S.Rajarajan & Ms.K.Abhirami	B1-12 B2-12	60	60		-	yes	(g)->
2.	CS8382/Dig Laboratory	ital Systems	Mr.R.Sathyaraj / Mr. W. Newton David Raj	B1-10 B2-10	60	60	-		yes	Kal-Newton
3.		ect Oriented ng Laboratory	Dr.D.Sivakumar & B.Sangeetha	B1-13 B2-13	60	62	-	-	yes	SE
4.	HS8381/Int Skills/ Liste	erpersonal ning & Speaking	Mr.P.Rajeshwaran	B1-13 B2-13	30	30		-	yes	1592

Class co tramator

HOD 8/10/19







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2019-2020 /Odd SEMESTER

	311	· · · · · · · · · · · · · · · · · · ·		Status of syllabus cov	erage as on -	- 19 .07.201	9			
	artment	ECE	Branch	FEE	Ye	ar	The Control	IV	Sec	
	Class Co- ordinator	R. THAN DAY UTHOPE	≫2Mentor	Nos. P. Thinum	W. TM 150	newton.	Mrs.D.ve	emik Nrs.T. Jeyanglar	Hr. A. He	rald.
SI. No.	Subject Code	Name of the Subject	Staff Name	Units Covered	Hours planned	Hours taken	No.of Hrs Req.to complete remaining portions	Reasons for deviation	Verification of student notes	Signatur of faculty
1.	EC6701	Et & Michanon	R. Thorday whop	2 02	20	20			yes	PE 500
2.	EC6701	OCH	K. Sudor Saran	02	20	20			yes	Johns
3.	Ec 6703	earis	Dr. J. Shantli	02	20	20		Lov. Williams	Yes	WOR
4.	Ec boos	satellite whiching	W. Newton o	02	20	23			Yes.	M. News
5.	Ecbo11	EMIC	P. Thirumagal	02	20	20	The Contract of the Contract o		yes.	8.00
6.	Ec Polp	OED	D. Vernila.	02	20	20			Yes.	O. leut
SI. No.	Lab Subject Code	Name of the Laboratory	Staff Name	Experiment completed	Hours planned	Hours taken	No.of Hrs Req.to complete remaining portions	Reasons for deviation	Verification of observation / Records	Signature
1.	ECG711	Frosbedded 195	T. Priupatri	04	B1-12 B2-12	131-12 B2-14			yes	Lome
2.	EC6712	on Lab.	R.Thorobogutho 120	04	132:12	B1: 14	从 上外		Yes	REPORT

Class Co-ordinator

Head of the Department

J. Principal







DEPARTMENT OF SCIENCE AND HUMANITIES ACADEMIC YEAR 2018-2019/ ODD SEMESTER

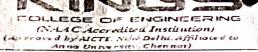
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	Department	S&H	Year I	人名 如學	Ay .				Section	A
	ass Coordinator	Dr.AL.Kavitha / AP II /Chemistr	y	A. Cheste.	Mentor	Dr.V.K	Cumaran, Dr.R.	Suresh, Mrs.S.Anuradha,	Mr.R.Shankar	His Askin
S. No.	Nan	ne of the Subject/ Code	Staff Name	Units Covered	Hours planned	Hours taken	No. of IIrs Req. to complete remaining portions	Reasons for deviation	Verification of student notes	Signature of
1.	Communicative I	English/ HS8151	Dr.V.Kumaran	3.1	32	32		- 1	Yes	the
201	Engineering Matl	nematics-I/MA8151	Dr.R.Suresh	3	47.	46	- 1		yes	100
3.	Engineering Phys	ics / PH8151	Mrs.S.Anuradha	3.3	32	38		- 14	Yes	secol
4.	Engineering Chen	nistry / CY8.51	Dr.AL.Kavitha	3.1	35	35			Yes	AS (NOW)
5.	Problem Solving	And Exthon Programming / GE8151	Mrs.K.Abiram:	3	36	34	1 7 H		zes	10 colle
ģ.	Engineering Grap	hics / GE\$152	Mr.R.Shankar	2.9.	54	52	A THE	Due to Poorja	Yes	Robert
S. No.	Na	me of the Lab/ Code	Staff Name	Experiment completed	Hours planned	Hours taken	No.of Hrs Req.to complete remaining portions	Reasons for deviation	Verification of observation / Records	Signature of faculty
1.	Physics and Cher	mistry Laboratory – /BS8161	Mrs.S.Anuradha/ Mr.S.Ambalatharasu Dr.AL.Kavitha / Dr. V.Sureshkumar	Batch-4 Bacho-5	12+15 8, 82 3040	12+15	-/*		yes Yes	AL W
2.	Problem Solving A	and Python Programming / GE8161	Mrs.K.Abirami/ Mrs.G.Chandrapraba	7	24	23	37	Friday labs cancilled due to hoteday	zes	Kollo

AL COU27 10/18
Class Coordinator

HOD/S&H 29/10/18









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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2018-2019/ ODD SEMESTER

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	rtment	ECE	PG	M.E-VLSI Design	Ye	1. N. J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		1	Sec	- 1
Class Co-c	s ordinator	A HERALD	Mentor							
SI. No.	Subject Code	Name of the Subject	Staff Name	Units Covered	Hours planned	Hours taken	No.of Hrs Req.to complete remaining portions	Reasons for deviation	Verification of student notes	Signature of faculty
1.	MAST 52	AMEE	G. RAMYA AROCKIA	1.5	18	20	72.5		Yes	age
2.	AP5151	ADSD	S-SIVAKUMAR	1.5	16	16	-		Yes	1
3.	VL5101	cmas origital VLSE DOSEN	P. SACAYA RAG	1.5	16	16	in the		yes	4hA
4.	VLSIQI	DSP IC	R. BALAKAISH	AN 1.5	12	12	4-3	-	رعولا ا	-84
5.	UL 5102	CAD FOR VISI CIRCUITS	D. VENNILA	1.5	1157	14			Yes	and
6.	VL5103	AID	A. HERALD	1.5	18	19	- - 1	- 4	78	B. He
SI. No.	Lab Subject Code	Project phasest Name of the subject	Staff Name	Experiment completed	Hours planned	Hours taken	No.of Hrs Req.to complete remaining portions	Reasons for deviation	Verification of observation / Records	Signature of faculty
1.	VL5111	VLSI DesignLab-I	Mrs. V. Teyamalar	2	20	16	1 - We	- · ·	Yes	(Tolled

Class Co-ordinator

Head of the Department

Principal







	tment	1个种外的。	CIVIL ENGI	NEERING	tatus of syllabu	Year	IV	ESPENS LARGE	Sec 4 100	A	Sales Control
ass (Co-ordinator	THATE	Mr.M.Man			Mentor	1. Mr.K.Ar	un /	2. Ms.D.Sharmila	artini i je j	I. Significan
A. lo.	Code	Name o	f the Subject	Staff Name	Units Covered	Hours planned	Hours taken	No. of Hrs Req. to complete remaining portions	Reasons for deviation	Verificatio n of student notes	Signature of faculty
L	CE6701	Structur & Earth Enginee		Mr.K.Arun	14	44	44	74 at 11 at 1		Yus	redi
2.	CE6702	Prestres Concret	ssed e Structures	Ms.R.Revathi	31/4	41	41	1-	-4	100	05
3.	CE6703	Water R and Irri Enginee		Ms.D.Sharmila	3-8	36	36			Yes	& 1.
4.	CE6704	Estimat Quantity	ion and Surveying	Mr.S.R.Elwin Guru Chanth	3.5	34	34	-	W. 74 E 7	Yes	100
5.	CE6007		Planning nagement	Mr.M.Manimuhilan	3.6	32	35			Yes.	Chery
6.	CE6011	Air Pollu manage	and the second second	Ms.T.Bhuvaneswari	3.5	31	37	- 1	C	Yes	D
			4 1 1 2 7 1 1 1 1		Pl	RACTICAL	A. Ha				
7.	CE6711	Compute Design a Laborate	nd Drafting	Ms.K.Aruna	B ₁ - 8 B ₂ - 8	B1 -27 B2 -27	27	-	Ass-I -Test	Yes	k&~.
8.	CE6712	Design P	roject	Mr.K.Arun	Sevina	B ₁ - 20 B ₂ - 20	P1-30 P2-30			Yus	ren

Competer

CLASS COORDINATOR

HOD/CIVIL



NAAC Accredited Institution)





Status of syllabus coverage as on: , 31 . 8 . 18-Department MECHANICAL Year year. Sec Rsec **Class Co-ordinator** 1. VINOTH Mentor 1. Vinoth Kannan V KANNAN Arun. R No. of Hrs Name of the Subject / Req. to Verification Sl.No. Units Hours Hours Reasons for Signature Staff Name of student complete Code Covered planned taken deviation of faculty remaining notes portions Professional Ethics 1. Baron Kumon B 3.2. 39 34 YCA 2. 3 30 30 1+ 40 Prince J. Christopher 3. Vinoth Kannon V 3 30 39 Yes! Since the susied 3 33 4. 30 1 Kaja par Thiban T Yes requires more solving the netrology & 31 Yen 5. 3600 Cijcyakınıen. V more no of Dynamics co 10 6. 30 Nus 3 35 bodos meltors 7. No. of Hrs Verification Req. to **Signature** of Reasons for Name of the Lab / **Experiment** Hours Hours complete **Staff Name** Sl.No. of faculty observation completed planned taken deviation Code remaining / Records portions 27 27 Hohiday on Dynamics las -1. YES Wednesday more G. MATHI VANAN 32 18 18 07 27 3 Holiday on Monday BI! 24 MM las Yes. 2. V.VINOTH KANNAN 82: 08 27 27 B1 - 8 16 8 24 Holidays on Thermal Eyes tob Yes B2 - 9 24 S'RAJESH KUMAR. 24

HOD

(J. Vinoth Kannan)







			S	tatus of syll	abus co	verage a	son- 29	.3.18		
Depa	rtment	CS	F	1,	7	Year	177-	E I YR	Sean Ti	SEM
Class		That Halle a	CHANDRA PRI	ASA	Men	tor 1.	Hemal	atho 2.		
Sl.No	/ Cod	le	Staff Name	Units Covered	Hours planned	Hours taken	No. of Hrs Req. to complete remaining portions	Reasons for deviation	Verificatio n of student notes	Signatur e of faculty
1.	Notwork.	Design	Mr. S. Puranesmi Yh. R. Rajuajan	31/4	30	30	_		Yes	2 Par
2.	security	Practices	Yh. R. Rajnajan	31/2	32	39			Yes	Jak y
3.	Internet of	of Things	Hr.R. Stroom Lumas	31/2	32	32			400	27
4.	Pag dat	alytics	Ms. K. Abhirani	3	28	32	4 50 450	• -	40	the
5.	Informati Delin Te	churgus	Hr. J. Jegan	3114	31	32		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	yes	8-84
6.	Claud com	puring	Kl. G. Chardre	3	27	29	_	- 1	Yes	G.Ca
LNo	Name of the	e Lab /	Staff Name	Experiment completed	Kours planned	Hours taken	No. of Hrs Req. to complete remaining portions	Reasons for deviation	Verificatio n of observatio n / Records	Signatur e of faculty
1.	Bis Datat	nalyhos	th. Ranitha	8	36	35	70		Yas	H 4.0
2.			Ns. R. Sugenthatakshi		36	136			Yes	1 809
3.		9	0			- 1				21

Class Co-ordinator

HOD







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC VEAD 2017 20

Depar	rtment * 5	T OF THE	Status	AIC YEAR 2017 of syllabus cover	age as on -1	5.62.2018				La Land
Class	- 2	ECE	Branch		Ye		TV			. 12
	dinator 🦷	S. Ramarajan	Mentor	7 7	-		The second secon		Sec -	
	Subject	Name of the Subject		T. Jeya.	pedan		K. Balal	krishnan	Kalaise	l vice
No.	Code		Staff Name	Units Covered	Hours planned	Hours taken	No.of Hrs Req.to complete remaining	Reasons for deviation	Verification of student notes	Signature of faculty
	EL6801	Wireless Communication	G. SUDAR GANAN	5	45	4-5	portions		-	
	EC6802 EC6018	wirders Networks	S. RAMARATAN	5	45	50	-	1 D	Jes	7
-	EC6018	Multimedia Compy CommI-	TIHTHAHZIT	5	45	44	_		yes.	7~
SI.		Name of the My credit	S SIVAKUMAR	5	45	50			1	35
No.		course	Staff Name	Portion completed	Hours planned	Hours taken	No.of Hrs Req.to complete remaining	Reasons for deviation	Verification of observation / Records	Signature of faculty
2	Mcc	Digital System designe Verification using EDA Tool INTERNET OF THINKS	, T. Pasupathi	5	45	46	portions	1 (C.)	1	-D
2.	MCC	INTERNET OF THINKS	P. Room Bruson	5	45	45			yes yes	Sundal

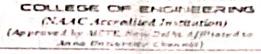
Class Co-ordinator

Head of the Department

Principal



COLLEGE OF ENGINEERING





	1 1			Status of	syllabus cov	erage as or	16/3/18			
Depai	rtment	MECHAN	ICAL			Year	T		Sec B	
Class	Co-ordinator	ARUN	l-R	1 6	Ment	or 1.	SUPTYMOUP	HV. R 2.	I MOTH KANH	y. i. v.
Sl.No.	Name of the Cod		Staff Name	Units Covered	Hours planned	Hours taken	No. of Hrs Req. to complete remaining portions	Reasons for deviation	Verification of student notes	Signature of faculty
1.	MAK452 - J	SNM	G. Stantaratelida	5	60	70	-		Tes	(D)(-24
2.	ME6401 -	Kom	Kari Kalan.	5	45	55-	-		Yes	For
3.	ME6402-	МТ-П	J. Preubakowan	5	45	48			Yes	2
4.	MEGHO3 -	EMM	Vinoth Kaman.	5	45	48		Lost & ATJ	Yes	A.
5.	MEBHOH -	ÎE	R. Arwi.		45	58	3	were possible	yes.	712.7
6.	GE 5357.	EVS	R. Arus. Dr. S. Udagalunos	5	45	53	-	No.	Yes	Atom
7.	7.1								-	V
SLNo.	Name of the Code	and the second	Staff Name	Experiment completed	Hours planned	Hours taken	No. of Hrs Req. to complete remaining portions	Reasons for deviation	Verification of observation / Records	Signature of faculty
1.	ME6411 -	m + =	ASWIN.M	11	45	36	-	1	Yes	fer
2.	MEG412 - T	1	Arun . R.	12	45	34	-	-	Yes	性
3.	CEBIS - So		KoriKalan	10	A5	33	_	-	Yeu	LN2

frhh.

Class Co-ordinator

T. Portymy



COLLEGE OF ENGINEERING Punalkulam, Thenjavur.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2017-2018/ EVEN SEMESTER

11	(2) (2) (2) (2) (3) (3) (3) (4) (4) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	Status of sylla	abus coverage	as on -2.3	1213	18.	pager or spirit		
	Department CSEN	Branch	CSE	7 - 7	-	Year	in ·	Sec	
Cl	ass Coordinator R. SIGIANTHA	LAKCHHI	魔()	Mentor	1 · H	S. P. NA	AYINI 2.HT.	S. RAJARA	JAN
S. No.	Name of the Subject/ Code	Staff Name	Units Covered	Hours planned	Hours taken	No. of Hrs. Req. to complete remaining portions	Reasons for deviation	Verification of student notes	Signature of faculty
1	CS6601 - DISTRIBUTED SYSTEM	Hs. R. Sugantra Lalyen	3 74	29	35	A - 4		Yes	Society
2.	TTEGOL - MOBILE COMPUTING	Mr. J. Jegan	3 1/4	29	32	2	include class	76	Boon
3.	CS6660 - COMPILER DESIGN	M. S. Auvanimori	A3/4	32	32		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes	S. Pw
14.	176502 DIGITAL SIGNAT PROXECTS.	No. R. Balatriction	3/2	42	47	_		Tes.	83
5	CS6659- ARTIACIAL INTELLIGING		33/4	35	41	110	onit-I was very vast	zes	Koleo
6.	GEG75T-TOTH QUALTY MG PT	w. D. Ovakumar	3 1/4	30	33	1	includes dens	yes	2x
7. S. No.	276502 - SOFTWARE TESTING Name of the Lab/ Code	M. P. Nalayırı' Staff Name	3 Units Experiment completed	Hours planned	32 Hours taken	No.of Hrs Req.to complete remaining portions	Reasons for deviation	Verification of observation / Records	Signature of faculty
1.	CS6611- HOBLE APP Despt Lab	Mr. J. Figan	B1:08 B2:08	27	8 8	-		yon	8.89
2.	CS 6612 - Compiler Dab	Ms. S. Puranumani	B1:10	30 27	30 2)			Yes	S. Par
3.	GE6674. Communication Skills Lab	Man. Albert Laverence	7	21	21	_		Yes	RAH

Class Coordinator

HOD/CSE



PCE REVIEW



DEPARTMENT

: CIVIL

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1 LA

YEAR/SEC	: 1			CLASS STRENG	GTH: 28*
Sub.Code & Title	Staff In-Charge	PCE SKILL ACTIVITY conducted (as per course plan)	Date of Execution	Outcome attained	Remarks
MA8491 Numerical Methods	Ms. S. Creetha highest problem	HW-20 problems (1-4 Units)	Regular 19.2.2020	problem solvering	2 Activities 1* pending (18)
CE8401 Constn. Tech. 4 Practices		Images.	15.2.2020 22.22020	no single digit	5 Activity/course 1 Commany god 2/15tudent god Video - bossed che Open book leokaliving
CE8402 Strugthay Mat-II	Ms. K. Jaya Scelkaru	Model passedu, Cesteck Case study, Seninai APH, Quiz			S Schives (PL) PCATE-description
CE8403 Applied Hy. Engg.	Ms. V. Ishaanya	Case study, APH, Posteu pocoutalu	14-2-2020 21-2-2020	Applicate knowled presentatu skills (airils and	3 Activities 4/ student.
CE8404 Concrete Tech	Ms. K. Bhavaroku	Concept Map, ppt, posterialization	1722020	Key paint comi idealisticalismistral Scot legiscitalis Pacantalu skils	5 Activities 2 Activity - slow learner
C28491 Soil. Mechgica		Material property identity GATE-papersolving case study Poster , and	17-2-2020	1 A ft	CActivations.
Verified by K	colle 28/2	Poster / Will		Approved by	1



DEPARTMENT

: CIVIL

YEAR/SEC	: TD			CLASS STREN	GTH: 39
Sub.Code & Title	Staff In-Charge	PCE SKILL ACTIVITY conducted (as per course plan)	Date of Execution	Outcome attained	Remarks
CEBGOI Design ay Steel structure Elenent	Ms·M·Priya	Material West ticatur (6)	22.2.20	Procedical lassing CATE_Solve ability Case styly-world- struck - knowle	Ontot-I
CEBGOZ Structural Incelupa-ii	Ms.T.Bhewars	Quiz, APH, case study Appla, Concept Map.		Case study use Jul - proj initiale Oei 2-Exampaint Proceedate skills	
CE8603 Isrigation Engg.	Ms.K.Roujeth	Quiz, Case study Field viset, APH Quiz (Fortorbot).	22.2.200	interesting for	
CEBEO4 Higheory Engg,	Msk Jeya Saukari	Seniñau, Case study presutah, Quiz, teste 50-10 - Quiz.	14.2.202	psental skills ospplicatus renocalidase gar	
EN8592 Waste Water Engg	Ms.V: Isheoonya	10 -0 0 16.2.	17.2.2020 21.2.2020	Pictur-Design Knowled Oui2-Figuery Cop Applin Kom Study	
CE8005 Listolla.	Mr. R. Suden	Quiz, Ppt, Posker Case study, Crosscord	8.2.2020 20.2.2020	stagesteauoverom 2 marks ans. Coverage Psenetaluskills casestudy-useste	2 Activity/ster
Verified by	Killer 28/2	1		Approved by	2. 120 18/1 20 m



DEPARTMENT

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YEAR/SEC	: 17					CLASS ST	TRENG	TH:	
		PCE SKILL ACTIV	VITY conducte			Outcome attained	' T	Remarks	
Title		(as per course p	plan)		Execution			- A A	
	OL P.D	posteu, Re	ale play,	1PH	Feb on human	headership Or	alitu	3 Activity	Studen
pourciples	Dr. B. Baran Kuman	Toppen - a	iste an	•	24.2.2000	planning-Kno	, caled		
ay Mgmt.						Knoeokalye go	cer	<u>. </u>	
CE 6016	Mo. K. Snee	(2000secons)	, aui2, pos	sten	8 - 2 - 2020	Part A @ Con	enge	4/activi	
prejabricale	Y	Freld visit	pn.		27.2.2020	Comp. Exam. P.	wetu ils	3 COM MOI	n.
Stricky	1	Conj. (to be	completed.	The Apr)		stage Jean Or	-,		rls-Vaco
CE602 X		casestud	4	יום נ	17.2.2020		vity	2/shuã	ect.
Repair	Ms. R. Revolly	posteu,	servina	MAM	21.2.2020	Know gain	proce	4 Active	ities-
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DEPARTMENT

YEAR/SEC	: 11			CLASS STRENG	GTH: 45
Sub.Code & Title	Staff In-Charge	PCE SKILL ACTIVITY conducted (as per course plan)	Date of Execution	Outcome attained	Remarks
MAS402 Probability Lawy theory	Dr. R. Suzesh	PPt-15 students. Vide-30 1	10.02.2020	Reg. practice-proble self-leaving- Application-identifu	activity of good
C58491 CA	Ms.P. Walayini	Casesteidy poster Midmap	15.2.2020 21-2.2020 15.2.2020	Pantationils	
CS8492 DBMS	Ms. R. Sigaitha Lakshii	(oncept Map (tool based) s Problem solvey (CIATE Qn) aui2 (5) -10		Concept Leaving —cocorai Poob Solvingskills Indepth Knowling	Us per couseplu
CS8451 DAJ	Mr.M. cloun	APH(10) 'Poster(10)		Application identification of concept made casion	
CS8493 OS	K. Abhtrani	Application, GATE On. Case study, Roleplay Picture prompt, Quiz (2,6-common)	13.2.2020 to 21.2.2020	Applin-ay Concept Case study-seal coostd officertu Concept looseig made Cased Comp	Us per coux pla 5 Activitýes/ 2 per studer
CS8494 SE		April Com	18.2.2020 20.2.2020 13.2.2020		
Verified by	200000 20 2			Approved by	J. 1 20 20







DEPARTMENT

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: II

CLASS STRENGTH: 45

YEAR/SEC	: LA_			CLASS STREN	GIH: -/~
Sub.Code & Title	Staff In-Charge	PCE SKILL ACTIVITY conducted (as per course plan)	Date of Execution	Outcome attained	Remarks
CS865/ MX840E PQT IP	Ms.R. Ranitha	MindMap (5) - Dill-tilles BACHE Actonymn-Expansion APH (10) Can.	Home 14.2.2020 to 20.2.2020	Concept recalled Easieul Presentalu Skills.	As per course
C38691 A <u>T</u>	Ms.S.Puvoenesia	posterprentateu(10) Qui2(5)-Online Meud map (5)	14.2.2020 17-2.2020 19.2.2020	Leavining made Courteu Comp Exam Exposur	3/by all. Us porcours
C 98601 M C	Dos. M. UMa	Mindmap (5) APH (10)/Poster-3 Qui2(5)	17.2.200 17.2.200 20.2.200	Concept leaving- Easier Qui2-obj. Mca Pxontaki skuk	3/bg all us percours
CS860 3 DS	Ms.B. Sangalha	Carestudy (10) Mindmap (5) Posteu (5)	14-2-2020 to 21-2-2020	Thoughtomess	
IT8076 ST	Mr. K. Rajeo	rendmappie (5) - II Peris 2 (5) - Onit III presentation	12.2.202012 70 21.2.2022	self leave cition heaving made easier Recollidur of Conceptions	Couse pla
C58602 CD	Ms-a. Chardra Pracha		15.2.2020	made casice	







DEPARTMENT

: CSE

CLASS STREMCTH . 20

YEAR/SEC	: 15_			CLASS STREN	IGTH: 36
Sub.Code & Title	Staff In-Charge	PCE SKILL ACTIVITY conducted (as per course plan)	Date of Execution	Outcome attained	Remarks
MG6088 SPM	Mr.R.Ssiran Komcu	auz(5) Mindmapping(5) APH(10)		Easy to learn, concept examinate proposed casicu	e e
TT6011 KM	Mr.S. Rajaraja	(Reviz(5) (10) Mind map(5)	19.2.2020	Mode casing Mid activity Stimulate la	y uni
CS6001 MCA	Ms. P. Naleyii	Cli 2(5) Posteu(10) Müdmap(5)	19.2.2020 22.2.2020 19.2.2020	poentationskill	
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•				J-1000-26/22	E N.D.

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DEPARTMENT

: 666

YEAR/SEC

: 111

CLASS STRENGTH 15

I EAR/ SEC	: <u>1[1_</u>			CLASS STRENG	GTH: 15
Sub.Code & Title	Staff In-Charge	PCE SKILL ACTIVITY conducted (as per course plan)	Date of Execution	Outcome attained	Remarks
sessol Solid state Drives	Mo R. Sonderay Mourthi	Case study-3 APH-4 Poster-1 Intuship-4 Field visit-3	14-2-2020 20-2-2020	S/wsimulahu -(3) prenetariuskills Applicatu(PT)	
EE8 002 Design ay Electrical Sprandus	Dr. S. Sivakaman	2000kohop-2 Féeldruit-3 prob solvij-3 Deno-4	11.2.2020 21.2.2020	Industrial exposed postiskels salvy	•
E 28 602 Salassiate Brites Drotection of Scottchese	Do M. Mbert Mourtei Bubar	Case study-4 Quiz-4 PP+-2 poster-1 Symp. Prem-2 2*	18·2·2020 21·2·2020	Presentate skills CS-Analizan, Knoco abt reaut treudo	•
EE8005 Special Electrical Machines	Mo J. Sookiwaj	posku-2 coesestudy-2 problem donij-3 2000kohup-2 Freld vesit-3	14-2-2020 21-2-2020	Biggi Leaving made easy. Field visit-RT exposure presentatu skills	Dissociations of the second of
EESG91 Embedded Systems	Mechalochair	PPT-4, Posten-4 Casestury-2 ani2-2	10.2.2020 15.2.2020	Espective use of Aids Skills gaing Application i Dechi ty.	Coverage good.
EESS	cd00 26/2			Front Front	
A et inien n'i.	212			Approved by	







ILA

: 288 **DEPARTMENT** CLASS STRENGTH: 16 : 1 YEAR/SEC Remarks Outcome attained PCE SKILL ACTIVITY conducted Date of Staff In-Charge Sub.Code & Execution (as per course plan) Title Endustrial exposer Good essorts 18-2-2020 2 Caudidate - 2vorkohop. Mas. R. Kouthaley 10845 22.2.2020 15 - Field visit. Control AVI - poob . Soi skills AL(4) - 2-GATE and Sydena - 2- poster prendol 13-2-2020 Student category APH-3, casesfully-5 instruments-by all EE8403 Mo. S. selethird 20-2-2020 Qui2-4 paster-3 Measonits (sloco lecuneu) Enstounder Moddan Cace Audy-7 Seninau-3 13.2.2020 Technical EE8402 20-2-2000 Jeco e activities posterior somme Taces missen Qui2-4 problems-8 posten-1 Destributes Case study-7 poster-5 APH-1 1 perolais 18.2.2020 EE 8401 22.2.2020 Scebmettel Homework Congresanty MA849 1 Que 17-2-2020 Momental Dr. a. Sankana Kalidass methodo Dill activities 18.2.2020 Casestury-2 Qui2-89 Upplication-2 APH-2 £2845 Good exports. 22-2-2020 Mr. Sudansaian LICA

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DEPARTMENT

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YEAR /SEC

	YEAR/SEC	: <u>TR</u>			CLASS STRENG	GTH: 13 [~]
	Sub.Code & Title	Staff In-Charge	PCE SKILL ACTIVITY conducted (as per course plan)	Date of Execution	Outcome attained	Remarks
/	Electric Glog Cuperation Utilization of	Ms. N. Rajescari	5 studies - APH, case study, MCQ Mend map, Qui 2 7 studies —	ю	Speely 2 comit	
/	EE6009 POLOEN Electrical Too Remucille Energy System	Selvaray	7 shiduts - APH(4), Cauestudge) Qui 2(1)	18.02.2020 ho 22.02.2020	self learning initiative. Procentation skills Application	
	Total Quality Managent	Mo-Sween Babu	Muidmap (3) Poster parentalu(2) APH (4) Mca(2)	13.02.2020 po 20.02.2020	Activity based leaving to Jollow.	1 not submitted
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					J. 1726212	2.00

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Approved by



STRUCTURE OF COURSE PLAN & VERIFICATION







COURSE PLAN STRUCTURE - REVISIONS

YEAR	INITIATIVES
2016-2017 (ODD)	 In Teaching Methodology atleast one PPT per unit was included. The topic that can be taught with NPTEL video was identified and the corresponding link was mentioned. Also included the Web resources for important topics and the book that covers each topic was specified along with page numbers. Unit wise learning outcome, Classification of students into three batches, Questions/Topics to each batch, 3 Assignments per batch, APH assignment topic, version of the courseplan for particular regulation, internal assessment and assignment topic coverage details and the topic for contend beyond the syllabus were also specified clearly.
2017-2018 (ODD)	Assignment deadline and the weightage of marks for assignments were included.
20 17-2018 (EVEN)	 The count of assignments was reduced by one and the pattern of assignment was changed into Part A and Part B. Assignments' mark was increased to 30. Presentation topics were included to particular batches. Each batch will get presentation topics for different subjects.
2018-2019 (ODD)	Revision hours were added at the end for all units.
2018-2019 (EVEN)	Extra hour added to each unit for more detailed coverage of topics.
2019-2020 (ODD)	 PCE activities were given as assignment work for Assignment 2 and the weightage of marks for Assignments is 20. The activities were listed and assigned to the students based on their learning capacity. Syllabus -Subject order based page numbering

2019-2020 (EVEN)	Part - C was included in the Question Bank.
2020-2021 (ODD)	 Course Assessment Plan, Course Outcome Alignment Matrix and Assessment Paper Quality Matrix were included. Teaching methodology was changed as BB/PPT for all topics because of online classes. Atleast two Video lectures were included for each unit.
2020-2021 (EVEN)	 Atleast three Video lectures were included for each unit. Assignments were given the mark weightage of 50. Question Bank was modified by including the Bloom's Taxonomy level, Course Outcome covered and Performance Indicator mapped for each question.

J. Maria. 18/8/2021.

PRINCIPAL







DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SUBJECT: POWER ELECTRONICS

SEMESTER: V

QUESTION BANK (EE 8552) (Version: 3)

PREPARED BY

Mr.S.R.KARTHIKEYAN AP/EEE

EE8552

POWER ELECTRONICS

LTPC 3 0 0 3

UNIT I

POWERSEMI-CONDUCTOR DEVICES

9

Study of switching devices, SCR, TRIAC, GTO, BIT, MOSFET, IGBT and IGCT - Static characteristics: SCR, MOSFET and IGBT - Triggering and commutation circuit for SCR-Introduction to Driver and snubber circuits.

UNIT II

PHASE-CONTROLLED CONVERTERS

9

2-pulse, 3-pulse and 6-pulseconverters – performance parameters – Effect of source inductance— Firing Schemes for converter–Dual converters, Applications-light dimmer, Excitation system.

UNIT III

DC TO DC CONVERTER

9

Step-down and step-up chopper-control strategy – Introduction to types of choppers-A, B, C, D and E -Switched mode regulators- Buck, Boost, Buck- Boost regulator, Introduction to Resonant Converters, Applications-Battery operated vehicles, Solar PV systems.

UNIT IV INVERTERS

9

Single phase and three phase voltage source inverters (both120° mode and 180° mode)-Voltage & harmonic control - PWM techniques: Multiple PWM, Sinusoidal PWM, modified sinusoidal PWM - Introduction to space vector modulation - Current source inverter, Applications-Induction heating, UPS.

UNIT V

AC TO AC CONVERTERS

9

Single phase and Three phase AC voltage controllers - Control strategy - Power Factor Control - Multistage sequence control - single phase and three phase cyclo converters -Introduction to Matrix converters, Applications – welding.

TOTAL: 45 PERIODS

S. M. borthilung

Faculty in-charge







DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING **COURSE PLAN**

Sub. Code : EE8552 Branch / Year / Sem : B.E EEE / III /V Sub. Name : Power Electronics **Batch** : 2019-2023 **Academic Year** : 2021 - 22 (ODD) Staff Name : Mr.S.R.Karthikeyan

COURSE OBJECTIVE

- 1. To get an overview of different types of power semiconductor devices and their switching characteristics.
- 2. To understand the operation, characteristics and performance parameters of controlled rectifiers
- 3. To study the operation, switching techniques and basics topologies of DC-DC switching regulators.
- 4. To learn the different modulation techniques of pulse width modulated inverters and to understand harmonic reduction methods.
- 5. To study the operation of AC voltage controller and various configurations.

TEXT BOOKS

T1. M.H.Rashid, 'Power Electronics: Circuits, Devices and Applications', Pearson Education, PHI Third Edition, New Delhi, 2004.

T2. P.S.Bimbra "Power Electronics" Khanna Publishers, third Edition, 2003.

REFERENCE BOOKS

R1. M.D.Singh, K.B.Khanchandani, "Power Electronics", Tata McGraw-Hill, 1998.

WEB RESOURCES

W1. http://www.ijcee.org/papers/343-E919.pdf

(Topic.No:6)

W2.http://www.nptel.ac.in/courses/Webcoursecontents/IIT%20Kharagpur/Power%20Electronics/ (NPTEL) PDF/L-17(NKD)(PE)%20((EE)NPTEL)%20.pdf

W3.https://www.lrc.rpi.edu/programs/solidstate/assist/pdf/AR-Dimming.pdf

(Topic.No:13)

(Topic.No:15)

W4. http://www.circuitstoday.com/types-of-chopper-circuits

(Topic.No:18 & 19)

W5. https://www.mdpi.com/1996-1073/11/9/2433/pdf

(Topic.No:23)

W6.https://nptel.ac.in/courses/108105066/PDF/L-38(DP)(PE)%20((EE)NPTEL).pdf(NPTEL)

(Topic.No:27)

W7. http://www.iitk.ac.in/npsc/Papers/NPSC2002/110.pdf

(Topic.No:31)

W8. http://www.sa-japan.com/sa-japan/catalog/CEIA_InductionHeatingPrinciples_

FC040K0068v1uk.pdf

(Topic.No:33)

W9. http://www.revotechnologies.net/uploads/1/6/0/7/16078520/unit_ii-_mt1.pdf

(Topic.No:41)

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods		
UNIT I	POWER S	POWER SEMI-CONDUCTOR DEVICES						
1.	Study of switching devices	T2	1-5	BB / PPT	1	1		
2.	Structure, Ton-Toff, VI characteristics of Diode & SCR	Т2	62-93	VIDEO	2	3		
3.	Structure, Ton-Toff, VI characteristics of TRIAC& GTO	Т2	123-124 10-14	BB / PPT	2	5		
4.	Structure, Ton-Toff, VI characteristics of BJT&MOSFET	Т2	15-19 20-23	VIDEO	1	6		
5.	Structure, Ton-Toff, VI characteristics of IGBT & IGCT	T2 R1	24-27 588	BB / PPT	1	7		
6.	Triggering and Commutation circuits for SCR	T2,W1	160-174	BB / PPT	1	8		
7.	Introduction to Driver and snubber circuit	Т2	94-103	BB / PPT	1	9		

LEARNING OUTCOME

At the end of unit, students should be able to

- Describe the basic operations of power semiconductor switches used for power conversion.
- Explain the various gate triggering circuits.
- Understand the concepts of various semiconductor devices.

UNIT	I PHASE	LED CONVI	ED CONVERTERS			
8.	2-pulse converters	T2	175-201	BB / PPT	1	10
9.	3-pulse converters	T2,	214-220	BB / PPT	1	11
10.	6-pulse converters	T2	210-214	VIDEO	2	13
11.	Performance parameters	T2	225-227	VIDEO	1	14
12.	Effect of source inductance	T2	221-225	BB / PPT	1	15
13.	Firing Schemes for converter	W2	(NPTEL)	BB / PPT	1	16
14.	Dual converters	T2	228-235	BB / PPT	1	17
15.	Applications-light dimmer and Excitation system.	W3	-	BB / PPT	2	18

LEARNING OUTCOME

At the end of unit, students should be able to

- Design 2-pulse, 3-pulse and 6-pulse AC to DC converter.
- Analyze different configurations of converters.
- Understand the operation of dual converter.

UNIT	III	DC TO D	DC TO DC CONVERTER				
16.	Step-down and step-up chopper	Т2	248-254	VIDEO	2	20	
17.	control strategy	T1	170	VIDEO	1	21	
18.	Introduction to types of choppers	W4	-	BB / PPT	2	23	
19.	A, B, C, D and E			,			
20.	Switched mode regulators Buck & boost	T1	186-190	BB / PPT	1	24	
21.	Buck- Boost regulator	T1	194-203	SIM/INTERN	1	25	
22.	Introduction to Resonant Converters	T1	352	BB / PPT	1	26	
23.	Applications-Battery operated vehicles and Solar PV systems.	W5	-	BB / PPT	1	27	

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze of DC to DC converters.
- Design of DC to DC converters.
- Describe the performance parameters of controlled rectifiers.

UNIT IV	INVERTERS (9)							
Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods		
24.	Single phase inverters	T2	309-336	BB / PPT	1	28		
25.	Three phase inverters (both 120° mode and 180° mode)	R1	315-326	VIDEO	2	30		
26.	Voltage and harmonic control	Т2	347-349 359-362	BB / PPT	1	31		
27.	PWM techniques	T2,W6	349 (NPTEL)	BB / PPT	1	32		
28.	Multiple PWM	T2	351-354	BB / PPT				
29.	Sinusoidal PWM	T2	354-356	BB / PPT	1	33		
30.	Modified sinusoidal PWM	T2	356-359	BB / PPT				
31.	Introduction to space vector modulations	W7	-	BB / PPT	1	34		
32.	Current source inverter	T2	363-377	BB / PPT	1	35		
33.	Applications - Induction heating, UPS.	W8	-	VIDEO	1	36		

LEARNING OUTCOME

At the end of unit, students should be able to

- Explain the working principle of single phase inverters.
- Explain the working principle of three phase inverters
- Describe the various pulse width modulation techniques in inverters

UNIT V	AC TO AC CONVERTERS							
34.	Single phase and Three phase AC voltage controllers	Т2	396-405	BB / PPT	1	37		
35.	Control strategy & Power factor control	Т2	405-408	BB / PPT	1	38		
36.	Multistage sequence control	T2	409	BB / PPT	1	39		
37.	Single cyclo-converters	T2	414-419	BB / PPT	1	40		
38.	Three phase Cyclo-converters	T2	419-425	VIDEO	2	42		
39.	Introduction to Integral cycle control,	Т2	393-395	BB / PPT	1	43		
40.	Introduction to Matrix converters,	T1	536-537	VIDEO	1	44		
41.	Applications – welding.	W9	-	BB / PPT	1	45		

LEARNING OUTCOME

At the end of unit, students should be able to

- Understand the working principle of single phase ON-OFF type of ac voltage controller.
- Explain various types of cycloconverter.
- Draw the waveform for single phase and three phase cycloconverter.

COURSE OUTCOME

At the end of the course, the students will be able to

- Analyses AC-AC Converters
- Analyses DC-DC Converters.
- ➤ Analyses DC-AC converters.
- Analyses AC-DC converters.
- ➤ Choose the converters for real time applications.

CONTENT BEYOND THE SYLLABUS

1. Multilevel Inverter

INTERNAL ASSESSMENT DETAILS

ASST. NO.	I	II	MODEL
Topic Nos.	1 - 12	13-23	1-41
Date			

ASSIGNMENT DETAILS

ASSIGNMENT	I	II
Topic Nos. for reference / Activities	1-12	PCE
Deadline		

ASSIGNMENT I(20Marks)	ASSIGNMENT II(20Marks)
(Before CAT-I)	(Before CAT-II)
Topic no. for reference: 1-12	PCE Activity
Part-A	Activity 1:Case Study Presentation
1. Why Triac is not popular?	DC-DC Converter, Devices
2. What are the advantages of GTO over SCR?	Activity 2:Poster Presentation
3. Define Holding current and Latching current.	SCR, MOSFER, IGBT
4. What is the function of freewheeling diode?	Dual Converter, Inverter
5. What is the effect of source impedance?	Activity 3:APH Presentation
<u>Part-B</u>	Induction Heating, UPS
1. Briefly discuss the principle of operation and V-I	Activity 4:MCQ
characteristics of SCR, MOSFET& IGBT.	GATE Questions
2. With relevant waveforms, derive the expression	Activity 5: Virtual Lab
for average and rms value of output voltage in a	Buck- Boost regulator
1Φ fully controlled converter with RL load.	Activity 6: Comparative Performance
3. Explain the operation of three phase 3-pulse	Presentation
converter with R-load.	MOSFET Vs IGBT
	Activity 7:Debate
	Inverter or Rectifier which play
	more important role in power
	electronics world.

COURSE ASSESSMENT PLAN

СО	Co Description	Weightage	CAT1	CAT2	MODEL	Assign1.	PCE	AU
CO1	Ability to analyses AC-AC Converters	20%						
CO2	Ability to analyses DC-DC Converters	20 %		$\sqrt{}$				
C03	Ability to analyses DC-AC converters	20 %			$\sqrt{}$			
CO4	Ability to analyses AC-DC converters	20 %	V		V	V	V	
CO5	Ability to choose the semiconductor devices and the converters for real time applications	20 %	√		$\sqrt{}$	V	√	

COURSE OUTCOME ALIGNMENT MATRIX - MODEL EXAM SAMPLE QUESTION SET

Q.No	Question	Marks	СО	BTL	PI
1.	Define latching and holding current	2	CO4	L1	1.1.1
2.	List the advantages of GTO over SCR?	2	CO4	L1	1.1.2
3.	What is meant by inversion mode of rectifier?	2	CO3	L1	1.3.2
4.	Why power factor of semi converter is better than full converter?	2	CO3	L2	1.3.1
5.	Mention the different control strategies in DC chopper?	2	CO2	L1	1.1.1
6.	Specify the function of PWM control in dc chopper?	2	CO2	L2	1.2.1
7.	Define Modulation Index	2	CO4	L1	1.3.4
8.	Give the use of resonant switching	2	CO4	L2	1.2.2
9.	Why is half wave AC voltage regulator not used?	2	CO1	L1	1.3.3
10.	What is matrix converter?	2	CO1	L1	1.3.1
11.a. (i)	Describe about driver circuit and snubber circuit for MOSFET.	7	CO1	L4	2.1.1
11.a. (ii)	Draw and explain the switching characteristic of thyristor	6	CO1	L2	2.2.1
11.b. (i)	Describe the current commutation technique to turn off the SCR with neat sketch and waveforms.	7	CO1	L4	3.2.1
11.b. (ii)	Draw the switching characteristics of Power MOSFET. Explain in detail.	6	CO1	L2	2.2.2
12.a.	Explain the operating principle of single phase Dual converter with necessary diagrams	13	CO2	L5	3.3.3.
12.b.	Determine the performance parameters of a phase controlled converter	13	CO2	L6	3.3.4

Format: QP09

13.a. (i)	Describe the working of Buck-Boost converter with sketch and waveforms and also drive the expression.	7	CO3	L5	2.3.3
13.a. (ii)	What is called resonant switching? Explain its concept with relevant circuit diagrams.	6	CO3	L1	1.1.4
13.b. (i)	Explain the working principle of Load commutated chopper with aid of circuit diagram and necessary waveforms. Derive an expression for its output voltage	7	CO3	L2	2.1.3
13.b. (ii)	Describe the working of four quadrant chopper	6	CO3	L3	1.2.1
14.a.	Discuss the operation of operation of three phase inverter with 180° conduction mode with necessary waveforms and circuit.	13	CO4	L3	2.1.2
14.b. (i)	What is PWM? List the various PWM techniques. With neat diagrams,	7	CO4	L1	3.3.4
14.b. (ii)	Explain its working and applications.	6	CO4	L6	3.3.1
15.a.	Discuss the working of a 3 phase to single phase cyclo converter with neat voltage and current waveforms.	13	CO5	L4	3.1.2
15.b.	Explain operating principle of single phase to single phase cycloconverter with continuous and discontinuous load current with circuit and waveform.	13	CO5	L2	3.1.2
16.a.	Explain the various methods to reduce the harmonic content in the inverter and Describe the principle of operation of space vector modulation.	15	CO3	L3	3.1.3
16.b.	A 3-phase 6 pulse full converter is connected resistive and inductive load of 10Ω and $1H$ respectively from 3-phase, 220V, $50Hz$,Y- connected supply . for firing angle is 30 degree, determine (i) average output voltage (ii) average output current (iii) rms output current. Also derive the expression for its average output voltage.	15	CO4	L6	3.1.4

Level	1	2	3	4	5	6
Part-A	1,2,3,4,5,7,9,10	6,8	-	-	•	-
Part-B &C	13.a(ii), 14.b(i)	11.a,b(ii), 13.b(i), 15(b)	13.b(ii), 14.a, 16.a	11.a,b(i), 15(a)	12.a, 13.a(i)	12.b, 14.b(ii), 16(b)
Total Marks	29	32	34	27	20	34
Total %	17%	18%	19%	15%	12%	19%
Distribution %	35			34	3	1
Prepared by					Verified b	y -

HOD/EEE

F. M. bothilung Mr.S.R.Karthikeyan

Approved by

Principal







DEPARTMENT OF ELECTRICAL AND ELECTRONICSENGINEERING

SUBJECT: CONTROL SYSTEMS

YEAR/SEMESTER: II/IV

QUESTION BANK (IC8451)
(Version :3)

PREPARED BY
Mr.S.R.KARTHIKEYAN / EEE

IC8451

CONTROL SYSTEMS

L T P C 3 2 0 4

UNIT I SYSTEMS AND REPRESENTATION

9

Basic elements in control systems – Open and closed loop systems – Electrical analogy of mechanical and thermal systems – Transfer function –AC and DC servomotors – Block diagram reduction techniques – Signal flow graphs.

UNIT II TIME RESPONSE

9

Time response – Time domain specifications – Types of test input – I and II order system response –Error coefficients – Generalized error series – Steady state error – Root locus construction – Effects ofP, PI, PID modes of feedback control –Time response analysis.

UNIT III FREQUENCY RESPONSE

9

Frequency response – Bode plot – Polar plot – Determination of closed loop response from open loopresponse– Correlation between frequency domain and time domain specifications.

UNIT IV STABILITY AND COMPENSATOR DESIGN

9

Characteristics equation – Routh Hurwitz criterion – Nyquist stability criterion-Performance criteria –Effect of Lag, leadand lag-lead compensation on frequency response– Design of Lag, Lead and Lag-Lead compensator using bode plots.

UNIT V STATE VARIABLE ANALYSIS

9

Concept of state variables - State models for linear and time invariant Systems - Solution of stateand output equation in controllable canonical form - Concepts of controllability and observability.

TOTAL (L:45+T:30): 75 PERIODS

7.1. borthile Vozp1 /21

SIGNATURE OF STAFF IN-CHARGE

HoD/EEE







DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE PLAN

Sub. Code: IC8451Branch / Year / Sem: B.E EEE / II / IVSub. Name: Control SystemsBatch: 2019-2023Staff Name: Mr.S.R.KarthikeyanAcademic Year: 2020-21 (Even)

COURSE OBJECTIVES

- 1. To understand the use of transfer function models for analysis of physical systems and introduce the control system components.
- 2. To provide adequate knowledge in the time response of systems and steady state error analysis.
- 3. To accord basic knowledge in obtaining the open loop and closed-loop frequency responses of systems.
- 4. To introduce stability analysis and design of compensators.
- 5. To introduce state variable representation of physical systems.

TEXT BOOKS

- **T1.**Nagrath, I.J. and Gopal.M., "Control Systems Engineering", New Age International Publishers, 2017.
- T2. Benjamin C. Kuo, Automatic Control systems, 7th Edition, PHI. 2014.

REFERENCE BOOKS

- R1.Katsuhiko Ogata, 'Modern Control Engineering', 4th edition, PHI, 2015.
- R2.Richard C. Dorf and Bishop, R.H., "Modern Control Systems", 10th Edition, Pearson Education, 2009.
- R3.M. Gopal, 'Control Systems, Principles and Design', 2nd Edition, Tata McGraw Hill, New Delhi, 2012.
- R4.S.K.Bhattacharya, Control Systems Engineering, Pearson Education, 2005.

WEB RESOURCES

W1	https://nptel.ac.in/courses/108101037/15 Mason's gain formula	(Topic No.7)
W2	www.ece.uvic.ca/~agullive/trans/B_p1-38.pdf Time response analysis	(Topic No.17)
W3	https://nptel.ac.in/courses/108101037/27 s-domain & t-domain	(Topic No.23)
W4	https://nptel.ac.in/courses/108101037/39 Nyquist criterion	(Topic No.27)
W5	http://www.electrical4u.com/compensation-in-control-system-	
	lag-lead-compensation/Effect of Lag, lead and lag-lead compensation on frequency response.	(Topic No.28)

Topic No.	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Periods Required	Cumulative No. of periods
UNIT	I SYSTEMS A	ND REPRES	SENTATIO	N		(9+6)
01	Basic elements in control systems	T2 R4	2-8 1-3	BB/PPT		a s V
02	Open and closed loop systems	T2 9-11 R4 3-5 BB/PPT		1	1	
03	Electrical analogy of mechanical and thermal systems	R4	11-22 24-25	BB/PPT	2	3
04	Transfer function	T1	46-54	BB/PPT	1	4
05	AC and DC servomotors	R4	421-423	BB/PPT	1	5
06	Block diagram reduction techniques	R4	50-53	ВВ/РРТ	2	7
07	Signal flow graphs	R4 W1	112-115	BB/PPT NPTEL	2	9
08	Tutorial (Topic No. 3, 6 &7)	R4	25-37 54-94 115-137	VIDEO	6	15

- Describe and compare the open & closed loop systems.
- Derive the transfer function of mechanical systems.
- Obtain the transfer function using block diagram reduction techniques and signal flow graphs.

UNIT II		TIME RESPONSE				
09	Time response	R4	180-181			
10	Time domain specifications	R4 T1	195-199 204-205	BB/PPT	1	16
11	Types of test input	R4 T1	160-161 195-197			
12	I and II order system response	R4	181-195	BB/PPT	2	18
13	Error coefficients, Generalized error series	R4	163-169	BB/PPT	1	19
14	Steady state error	R3 R4	366-371 162-163	BB/PPT	1	20
15	Root locus construction	R4	259-266	BB/PPT	2	22
16	Effects of P, PI, PID modes of feedback control	T1 R3 R4	215-221 237-241 213-218	ВВ/РРТ	1	23
17	Time response analysis	R4 W2	180-371	BB/PPT	1	24

Topic	Topic	Books for	D N-	Teaching	No. of	Cumulative
No.	Торіс	Reference	Page No.	Methodology	Periods Required	No. of periods
	Tutorial		171-176	* 1		7.0
18	(Topic Nos. 9-15&17)	R4	201-211	VIDEO	6	30
			266-279			

At the end of unit, students should be able to

- Derive the expressions for time domain specifications.
- Obtain the response of I and II order systems.
- Construct the root locus technique.

UNIT	III	FREQUEN	(9+6)			
19	Frequency response	R3 T2	593-598 541-544	BB/PPT	1	31
20	Bode plot	R4	291-304	BB/PPT	3	34
21	Polar plot	R4 R1	290-291 523-527 529-531	BB/PPT	2	36
22	Determination of closed loop response from open loop response	R3	608-619	BB/PPT	2	38
23	Correlation between frequency domain and time domain specifications	T1 R3 R4 W3	347-352 598-601 288-290	BB/PPT NPTEL	1	39
24	Tutorial (Topic Nos. 20,21)	R4 R3 R1	304-315 526-544 527-528	VIDEO	6	45

LEARNING OUTCOMES

- Sketch the bode plot and polar plot and comment on the stability of the system by computing the frequency domain specifications.
- Determine the closed loop response from open loop response.
- Correlate the frequency and time domain specifications.

UNIT	T IV STA	BILITY A	ND COMPE	NSATOR DESIG	N	(9+6)
25	Characteristics equation	R4	239-240	BB/PPT	1	46
26	Routh Hurwitz criterion	R4	241-242	BB/PPT	2	48
27	Nyquist stability criterion	T1 R4 W4	381-383 316-318	BB/PPT NPTEL	2	50
28	Performance criteria - Effect of Lag, lead and lag-lead compensation on frequency response	R4 W5	325-332	SIM/INTERN	1	51
29	Design of lag,Lead and Lag-lead compensator using bode plots	R3	649-654 662-665 670-672	ВВ/РРТ	3	54

Topic No.	Торіс	Books for Reference	Page No.	Teaching Methodology	No. of Periods Required	Cumulative No. of periods
30	Tutorial (Topic Nos. 25-27 & 29)	R4 R3	242-256 318-320 654-660 666-669 672-674	VIDEO	6	60

At the end of unit, students should be able to

- Construct Routh array &Nyquist plot and determine the stability of the system.
- Describe the performance criteria of Lag, Lead, and Lag-lead networks.

Design the Lag, Lead, Lag-Lead compensators using bode plots.

UNIT	v sa	STATE VARIABLE ANALYSIS					
31	Concept of state variables	T1 R4	571-574 365-367	BB/PPT	1	61	
32	State models for linear and time invariant Systems	T1 R4	574-577 367-369	BB/PPT	3	64	
33	Solution of state and output equation in controllable canonical form	R4	369-386	ВВ/РРТ	3	67	
34	Concepts of controllability and observability	R4 R2	386-391 660-666	BB/PPT	2	69	
35	Tutorial (Topic Nos. 32-34)	R4	395-412	VIDEO	6	75	
EARN	NING OUTCOMES		7 10 10 10 10			ne propin	

At the end of unit, students should be able to

- Describe the concept of state variables.
- Obtain the state variable models for linear and time invariant systems and its solution of state and output equation.
- Explain the concepts of controllability and observability and its determination.

COURSE OUTCOMES

At the end of the course, the students should have the ability to

- Develop various representations of system based on the knowledge of Mathematics, Science and Engineering fundamentals.
- Do time domain and frequency domain analysis of various models of linear system.
- Interpret characteristics of the system to develop mathematical model.
- Design appropriate compensator for the given specifications.
- Come out with solution for complex control problem.
- Understand use of PID controller in closed loop system.

CONTENT BEYOND THE SYLLABUS

Compensator design using Root Locus technique

INTERNAL ASSESSMENT DETAILS

ASSESSMENTNUMBER	I	II	MODEL
Topic Nos.	1-13	14-24	1-35
Date			

ASSIGNMENT DETAILS

ASSIGNMENT	I	II
Topic Nos. for reference	1 - 13	PCE ACTIVITIES
Deadline		* /

ASSIGNMENT I (50 Marks) (Before CAT-I)

Topics for reference: 1 to 13

Part - A

- 1. Why negative feedback is preferred in control systems?
- 2. Define open loop and closed loop control systems.
- 3. What is block diagram? State its components.
- 4. List the time domain specifications.
- 5. Determine type and order of the following system, $G(s)H(s) = \frac{10}{[S^3(S^2+2S+1)]}$.

Part - B

- 1. For the mechanical system shown in figure: 1
 - (i) Draw the mechanical network diagram and hence write the differential equations describing the behaviour of the system.
 - (ii) Draw the force-voltage and force-current analogous electrical circuits.

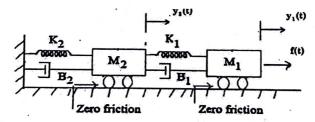


Figure 1

- 2. Derive the transfer function for the mechanical system shown in figure : $\mathbf{1}$
- 3. Derive the expressions for second order system for under damped case and when the input is unit step.

ASSIGNMENT II (50 Marks) (Before CAT - II)

PCE ACTIVITIES

Activity 1: Case study presentation

- Stability Analysis
- > State Variable Analysis

Activity 2: Poster presentation

- > Root Locus
- **➢** Bode Plot

Activity 3: Circuit Design and Model making

- > Servo motor
- > Transfer Function of Mechanical System

Activity 4: Application of concept

- ➢ Open Loop
- Closed Loop

Activity 5: APH

- ▶ PI & PID Controller
- P & PD Controller

COURSE ASSESSMENT PLAN

СО	CO Description	Weightage	CAT 1	CAT 2	Model	Assignme nt 1	PCE	AU
CO1	Ability to develop various representations of system based on the knowledge of Mathematics, Science and Engineering fundamentals.	20%	x	-	X _.	X	х	
CO2	models of linear system.	30%	x	х	x	х	x	
CO3	Ability to interpret characteristics of	10%		x	x		х	
CO4	Ability to design appropriate compensator for the given specifications.	15%	* * .		х		x	
CO5	Ability to come out with solution for complex control problem.	20%			х			
206	Ability to understand use of PID controller in closed loop system.	5%			x.		x	

COURSE OUTCOME ALIGNMENT MATRIX - MODEL EXAM SAMPLE QUESTION SET

Q.No	Question			1	
		Marks	CO	BTL	PI
1	Write the expression for mason's gain formula.	2	CO1	11	
2	Summarize the parameters of the translational and		COI	L1	1.1.1
	rotational mechanical systems.	2	CO1	L2	1.3.1
3	What is the effect on system performance when a				1.5.1
3	proportional controller is introduced in a system?	2	CO2	L1	1.2.1

			KCE/E	EPT.OF EF	Œ
4	Solve to find type and order of the following system $G(s)H(s) = \frac{10}{[s^3(s^2+2s+1)]}$	2	CO2	L3	1.1.2
5	What is meant by frequency response?	2	CO2	L1	1.3.1
6	Draw the approximate polar plot for a type 0 second order system.	2	C02	L2	2.3.2
7	Differentiate between gain margin and phase margin.	2	CO2	L4	3.3.1
8	What are the necessary conditions for stability?	2	. CO4	L1	1.1.1
9	Write the advantages of state space analysis.	2	CO5	L1	4.2.2
10	Write the homogenous and non-homogeneous state equation.	2	CO5	L1	4.1.4
11.a.	Show the differential equations governing the system and draw the force-current and force-voltage analogous circuits.	13	CO1	L2	2.1.3
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
11.b.	Find the transfer function using Mason's gain formula for the system given	13	. CO1	L1	2.2.1
3	R(a) C(a)				
12.a.	Find the static error coefficients for a system whose transfer $G(s).H(s) = \frac{10}{s(1+s)(1+2s)}.$ Also find the steady state error for $r(t) = 1 + t + \frac{t^2}{2}$.	13	CO2	L1	2.1.1
12.b	(i)Develop the transfer function of P, PI & PD controllers.	7	C06	L3	2.2.2
	(ii)Develop the transfer function of PID controller.	6	CO6	L3	2.2.2
13. a	Draw the bode diagram for the following transfer function.		,		
	$G(s) = \frac{75(1+0.2s)}{s(s^2+16s+100)}$				* *
1	(i)Determine gain margin.	7	CO2	L5	2.4.3
	(ii)Determine phase margin.	6	CO2	L5	2.4.3
	Construct the polar plot and determine the gain margin and phase margin of a unity feedback control system whose open loop transfer function is, $G(s) = \frac{(1+0.2s)(1+0.025s)}{s^{5}(1+0.005s)(1+0.001s)}.$				
	(i)Determine gain margin.	7	CO2	L5	2.4.3

	Format: QP09		KCE/	DEPT.OF E	EE
	(ii)Determine phase margin.	6	CO2	L5	2.4.3
14.a	Determine the stability of the given characteristic equation using Routh Hurwitz criterion.				27710
100	$(i)^{S^5 + 4S^4 + 8S^3 + 8S^2 + 7S + 4} = 0$	7	CO3	L3	2.4.1
141	(ii) $S^6 + S^5 + 3S^4 + 3S^3 + 3S^2 + 2S + 1 = 0$	6	C03	L3	2.4.1
14.b	Apply the Nyquist plot rules and comment on closed loop stability of a system whose open loop transfer function is $G(s) = \frac{10}{s^2(s+2)}$.	13	C04	L4	4.1.2
15.a	Find the canonical state model of the system, whose transfer function is, $T(s) = \frac{2(s+5)}{[(s+2)(s+3)(s+4)]}$	13	CO4	L2	4.1.4
15.b	Obtain the state space representation for the block diagram shown in figure below and also examine controllability and observability. V(s) X2(s) X2(s) X3(s) X3(s)	13	CO5	L4	4.2.2
	$G^{(s)} = \frac{s(s+2)}{s(s^2+5s+20)}.$	15	CO2	L6	5.1.2
l6.b	Draw the Nyquist plot for the system whose open loop transfer function $G(s)H(s) = \frac{\kappa}{s(s+2)(s+10)}$ Determine the range of K for which closed loop system is stable.	15	C03	L5	3.2.2

		MIENI PAP	EK QUALIT	Y MATRIX		
Level	BTL 1	BTL 2	BTL 3	BTL 4	DTLE	
Part-A	1,3,5,8,9,10	2,6	1	7	BTL 5	BTL 6
Part-B &C			4000	/	-	-
	11(b),12(a)	11(a),	12(b),	14(b),	16(b),	
Total Marks		15(a)	14(a)	15(b)	13(a)(b)	16(a)
	38	30	28	28		4 =
Total %	21%	17%	16%		41	15
Distribution %	38	70		16%	22%	8%
70	30		3	2	30)

Prepared by

7.1. borthilung on 101/2021

Mr.S.R.Karthikeyan, AP/EEE

Verified by

Approved by

Principal







DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT: ENGINEERING MECHANICS

YEAR/SEMESTER: I/II

QUESTION BANK (GE8292) (Version: 3)

> PREPARED BY Mr. M. ASWIN, AP/MECH

Confied Line

17/2 NOV 2019

GE8292 - ENGINEERING MECHANICS

L T PC 3 2 04

OBJECTIVES:

To develop capacity to predict the effect of force and motion in the course of carrying out the design functions of engineering.

UNIT I STATICS OF PARTICLES

9+6

Introduction – Units and Dimensions – Laws of Mechanics – Lami's theorem, Parallelogram and triangular Law of forces – Vectorial representation of forces – Vector operations of forces – additions, subtraction, dot product, cross product – Coplanar Forces – rectangular components – Equilibrium of a particle – Forces in space – Equilibrium of a particle in space – Equivalent systems of forces – Principle of transmissibility.

UNIT II EQUILIBRIUM OF RIGID BODIES

9+6

Free body diagram – Types of supports –Action and reaction forces – stable equilibrium – Moments and Couples – Moment of a force about a point and about an axis – Vectorial representation of moments and couples – Scalar components of a moment – Varignon's theorem – Single equivalent force -Equilibrium of Rigid bodies in two dimensions – Equilibrium of Rigid bodies in three dimensions

UNIT III PROPERTIES OF SURFACES AND SOLIDS

9+6

Centroids and centre of mass – Centroids of lines and areas - Rectangular, circular, triangular areas by integration – T section, I section, - Angle section, Hollow section by using standard formula – Theorems of Pappus - Area moments of inertia of plane areas – Rectangular, circular, triangular areas by integration – T section, I section, Angle section, Hollow section by using standard formula – Parallel axis theorem and perpendicular axis theorem – Principal moments of inertia of plane areas – Principal axes of inertia-Mass moment of inertia – mass moment of inertia for prismatic, cylindrical and spherical solids from first principle – Relation to area moments of inertia.

UNIT IV DYNAMICS OF PARTICLES

9+6

Displacements, Velocity and acceleration, their relationship – Relative motion – Curvilinear motion - Newton's laws of motion – Work Energy Equation – Impulse and Momentum – Impact of elastic bodies..

UNIT V FRICTION AND RIGID BODY DYNAMICS

9+6

Friction force – Laws of sliding friction – equilibrium analysis of simple systems with sliding friction –wedge friction-. Rolling resistance -Translation and Rotation of Rigid Bodies – Velocity and acceleration – General Plane motion of simple rigid bodies such as cylinder, disc/wheel and sphere.

TOTAL PERIODS: 45+30=75

STAFF IN-CHARGE

T. Emphant 4/11/18

HOD/MECH







DEPARTMENT OF MECHANICAL ENGINEERING **COURSE PLAN**

Sub.Code

: GE8292

Sub. Name

: Engineering Mechanics

Staff Name : Mr. M. Aswin Branch / Year / SEM: B.E Mech / I /II

Batch : 2019-2023 Academic Year

: 2019-20 (EVEN)

COURSE OBJECTIVE

To analyze frictional forces on rough surfaces.

• To enhance student's ability to design by requiring the solution of open ended problems.

TEXT BOOKS

T1. Beer, F.P and Johnston Jr. E.R., —Vector Mechanics for Engineers (In SI Units): Statics and Dynamics, 8th Edition, Tata McGraw-Hill Publishing Company, New Delhi (2004).

Vela Murali, —Engineering Mechanics, Oxford University Press (2010) T2.

REFERENCE BOOKS

- R1. Bhavikatti, S.S and Rajashekarappa, K.G., —Engineering Mechanics, New Age International (P) Limited Publishers, 1998.
- R2. Hibbeller, R.C and Ashok Gupta, -Engineering Mechanics: Statics and Dynamics, 11th Edition, Pearson Education 2010.
- Irving H. Shames and Krishna Mohana Rao. G., Engineering Mechanics Statics R3. and Dynamics, 4th Edition, Pearson Education 2006.
- Meriam J.L. and Kraige L.G., Engineering Mechanics- Statics Volume 1, Dynamics-R4. Volume 2, Third Edition, John Wiley & Sons, 1993.
- R5. Rajasekaran S and Sankarasubramanian G., —Engineering Mechanics Statics and Dynamics, 3rd Edition, Vikas Publishing House Pvt. Ltd., 2005.

WEB RESOURCES

W1.	http://www.iitg.ernet.in/rkbc/me101/Presentation/L01-03.pdf	(Topic No 08)
W2.	http://nptel.iitg.ernet.in/Courses(Video).php#mech	(Topic No 19)
W3.	http://nptel.iitg.ernet.in/Mech_Engg/Mechanical.pdf	(Topic No 29)
W4.	https://www.oercommons.org/search? equilibrium+of+particles	(Topic.No 37)
W5.	http://www.iitg.ernet.in/rkbc/me101/Presentation/L09-12.pdf	(Topic.No 42)



Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Reguired	Cumulative No. of periods
UNIT I	STATICS OF PARTICLES					(9+6)
1	Introduction, Units and Dimensions	T1	1-5	ВВ	1	1
2	Lami's theorem	T1	14-16	ВВ	1	2
3	Parallelogram and triangular Law of forces	T1	17-19	ВВ	1	3
4	Vectorial representation of forces	T1	88-90	ВВ	1	4
5	Vector operations	T1	17-20	BB	1	5
6	Coplanar Forces	T1	20-23	BB	1	6
7	Forces in space	T1	21-23	BB	1	7
8	Equilibrium in	T1	24, 25	BB	1	8
	rectangular components	W1		PPT	1	0
9	Equivalent of forces	R1	1.31- 1.35	ВВ	1	9
10	Tutorial On Unit 1	-	-	BB	6	15

At the end of unit, students should be able to

- Analyze the concept of mechanics
- Understand the equilibrium of rigid bodies
- Knowledge about the forces

IT II FOUL IDDIUM OF DIC	ID DODIES				
	IN RODIES				(9+6)
	Т1	57-81	BB	1	
	T1	214-240		1	16
Moments & Couples	T1			1	17
Moment of a force about		100 100	DD	1	18
a point.	11	317-324	ВВ	1	19
Vectorial representation of moments and couples	T1	325-333	ВВ	1	20
Varignon's theorem	T1	135-150	RR	1	
Single equivalent force	T1				21
			DD	l	22
bodies in 2D	R2	1.93-2.05	BB	1	23
Equilibrium of Rigid	T1	339-340	BB		
bodies in 3D	W2	_		1	24
Tutorial on Unit 2	rae .	-	BB	6	30
	Free body diagram Types of supports Moments & Couples Moment of a force about a point. Vectorial representation of moments and couples Varignon's theorem Single equivalent force Equilibrium of Rigid bodies in 2D Equilibrium of Rigid bodies in 3D	Free body diagram T1 Types of supports T1 Moments & Couples T1 Moment of a force about a point. Vectorial representation of moments and couples Varignon's theorem T1 Single equivalent force Equilibrium of Rigid bodies in 2D Equilibrium of Rigid T1 bodies in 3D Tutorial on Unit 2	Types of supports Moments & Couples Moment of a force about a point. Vectorial representation of moments and couples Varignon's theorem Single equivalent force Equilibrium of Rigid bodies in 2D Equilibrium of Rigid bodies in 3D Tutorial on Unit 2	Free body diagram T1 57-81 BB Types of supports T1 214-240 BB Moments & Couples T1 165-168 BB Moment of a force about a point. Vectorial representation of moments and couples Varignon's theorem T1 135-150 BB Single equivalent force T1 169-182 BB Equilibrium of Rigid bodies in 2D Equilibrium of Rigid bodies in 3D Equilibrium of Rigid W2 - NPTEL Tutorial on Unit 2	Free body diagram T1 57-81 BB 1 Types of supports T1 214-240 BB 1 Moments & Couples T1 165-168 BB 1 Moment of a force about a point. Vectorial representation of moments and couples Varignon's theorem T1 135-150 BB 1 Single equivalent force T1 169-182 BB 1 Equilibrium of Rigid bodies in 2D Equilibrium of Rigid bodies in 3D T1 339-340 BB NPTEL Tutorial on Unit 2

LEARNING OUTCOME

- Understand the free body diagram and moment and couple
- Analyze equilibrium of rigid bodies in two dimension and three dimension
- Identify the type of supports

Topic				CEL DEFT OF MEC	HANICAL EN	GINEERING
No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of
UNITI	II PROPERTIES OF SURFA	CES AND SO	LIDS		quireu	periods •
21	Centroids and centre of mass	T2	75-76	DD		(9+6)
22	T section, I section, Angle section	T2	70-72	BB	1	31
23	Hollow section by using standard formula	T2	71-73	BB	1	32
24	Theorems of Pappus	T2	74-75	BB	1	33
25	triangular areas by integration	Т2	76-77	BB BB	1	34
26	Parallel axis theorem	T2	78-79	ВВ	1	35
27	perpendicular axis theorem	T2	79-80	ВВ	1	36
28	Principal axes of inertia- Mass moment of inertia	R3	2.80- 2.85	ВВ	1	38
29	Relation to area moment of inertia	T2 W3	99-101	BB	1	39
30 LEADN	Tutorial on Unit 3 ING OUTCOME	-	-	NPTEL BB	6	45

At the end of unit, students should be able to

- Understand the centroid and center of gravity
- Knowledge about the moment of inertia of rigid body
- Understand parallel axis theorem and perpendicular axis theorem

31	Displacements					(9+6)
	Displacements	T1	149-150	BB	1	46
32	Velocity and acceleration	T1	136-137	BB	1	
33	Velocity and acceleration relationship	T1	138-140	ВВ	1	47
34	Relative motion	T1	170-178	ВВ	1	40
35	Curvilinear motion	T1	182-185	BB	1	49
36	Newton's laws of motion	T1	184-189	BB	1	50
37	Work Energy Equation	T1	182-184	BB	1	51
		W4	-	PPT	1	52
38	Impulse and Momentum	R4	185-188	BB	1	53
39	Impact of elastic bodies	T1	189-190	BB	1	
40	Tutorial On Unit 4			BB	6	54

At the end of unit, students should be able to

- Understand rectilinear motion and curvilinear motion
- Understand the relationship between velocity, acceleration and displacement
- Analyze momentum principle and their impacts

17'2 NOV

Topic No	Торіс	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	V FRICTION AND RIGID B	UDY DYNAM	ICS			(9+6)
41	Friction force	Т2	61-65	ВВ	1	-
42	Laws of sliding friction	T2 W5	66-68	BB	1	61
43	equilibrium analysis of simple systems	T2	70 -72	PPT BB	1	62
44	Wedge friction	T2	87-90		1	63
45	Rolling resistance	R5		BB	1	64
46	Translation and Rotation of Rigid Bodies	T2	92-93	BB	1	65
47	Velocity and acceleration	T2	94-95	ВВ	1	66
48	General Plane motion of simple rigid bodies	T2	99-100 102-	BB	1	67
49	Cylinder, disc/wheel and		106 107-	BB	1	68
	sphere. Tutorial on Unit 5	T2	112	BB	1	69
	NG OUTCOME	-	-	BB	6	75

At the end of unit, students should be able to

- Understand the various friction acting in rough surfaces
- Identify the roll of wedge friction.

COURSE OUTCOME

On successful completion of this course, the student will be able to

- Illustrate the vectorial and scalar representation of forces and moments
- Analyze the rigid body in equilibrium
- Evaluate the properties of surfaces and solids
- Calculate dynamic forces exerted in rigid body
- Determine the friction and the effects by the laws of friction

CONTENT BEYOND THE SYLLABUS

1. Belt friction and ladder friction acting machinery equipment.

INTERNAL ASSESSMENT DETAILS

TEST. NO.	1	DETAILS)
Topic Nos.	1 20	II	MODEL
Date	os. 1-20	21-40	1-50
Dute			

ASSIGNMENT DETAILS

ASSIGNMENT	Y	
Topic Nos. for reference	1	II
Deadline	1-20	PCE
Deadline		TCE

NOV 2019



ASSIGNMENT-I (20 Marks) before AT I	ASSIGNMENT II (20 Marks) before AT II
TOPICS FOR REFERENCE (1-20)	PCE ACTIVITIES
PART A	ACTIVITY 1: FREE BODY DIAGRAMS
1. State Parallelogram law of forces.	
2. State Parallelogram of vector	 Two roller body
addition.	Three roller body
3. Define principle of Transmissibility.	CONTROL OF
4. What is a free body diagram?	ACTIVITY 2: COG AND CENTROID
5. State and prove Varignon's theorem.	• I SECTION
PART B	T SECTION T SECTION
ART D	• I SECTION
6. Determine the magnitude and angle	ACTIVITY 3: MOI DIAGRAM DECODING
θ of F so that particle P, shown in Fig	
is in equilibrium.	 Addition of areas method
·	 Removal of areas method
F F	
	ACTIVITY 4: TECHNICAL SEMINAR
4.5 kN P	
- X	 Ladder Friction
/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Wedge Friction
30° 2.25 kN	
7.5 kN	ACTIVITY 5: TECHNICAL QUIZ
The last section of	Machine design
7. Find the magnitude and position of	
the resultant of the system of forces	weiding practices
shown in Fig.	
6KN 6KN 4KN 5KN 6KN	
i i i î î î	

4 m 2 m 3 m

8. State and prove Parallelogram Law of forces.

Prepared by Mr. M. ASWIN

Approved by PRINCIPAL

Verified by

HOD/MECH

11.2 NOV 2019







DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT: ME6702 MECHATRONICS

SEMESTER: VII

QUESTION BANK (ME6702)
(Version: 4)

PREPARED BY ASWIN.M/MECH

Bula

ME6702

MECHATRONICS

LTPC 3003

UNIT I INTRODUCTION

12

Introduction to Mechatronics - Systems - Concepts of Mechatronics approach -Need for Mechatronics - Emerging areas of Mechatronics - Classification of Mechatronics. Sensors and Transducers: Static and dynamic Characteristics of Sensor, Potentiometers -LVDT - Capacitance sensors - Strain gauges - Eddy current sensor - Hall effect sensor -Temperature sensors - Light sensors

UNIT II 8085 MICROPROCESSOR AND 8051 MICROCONTROLLER

Introduction - Architecture of 8085 - Pin Configuration - Addressing Modes -Instruction set, Timing diagram of 8085 - Concepts of 8051 microcontroller - Block diagram.

UNIT III PROGRAMMABLE PERIPHERAL INTERFACE

10

Introduction - Architecture of 8255, Keyboard interfacing, LED display interfacing, ADC and DAC interface, Temperature Control - Stepper Motor Control -Traffic Control interface.

UNIT IV PROGRAMMABLE LOGIC CONTROLLER

Introduction - Basic structure - Input and output processing - Programming -Mnemonics - Timers, counters and internal relays - Data handling - Selection of PLC.

ACTUATORS AND MECHATRONIC SYSTEM DESIGN UNIT V

8

Types of Stepper and Servo motors - Construction - Working Principle -Advantages and Disadvantages. Design process-stages of design process - Traditional and Mechatronics design concepts - Case studies of Mechatronics systems - Pick and place Robot - Engine Management system - Automatic car park barrier.

TOTAL: 45 PERIODS

STAFF INCHARGE



Accredited Institution) MCTE New Delht Affiliate



DEPARTMENT OF MECHANICAL ENGINEERING COURSE PLAN

Sub. Code Sub.Name : ME6702

: Mechatronics

Staff Name

: ASWIN.M

Branch / Year / SEM: B.E MECH/IV /VII

Batch

: 2016-2020

Academic Year

: 2019-20 (ODD)

COURSE OBJECTIVES

- To impart knowledge about the elements and techniques involved in Mechatronics systems which are very much essential to understand the emerging field of automation.
- Integrate the mechanical systems with electrical, electronics and computer systems
- To provide multidisciplinary approach to product development and manufacturing system design.
- To provide the knowledge of Programming Logic Controllers for automation
- To impart knowledge of actuators and mechatronics system of design

TEXT BOOKS

T1.G.K.Vijayaraghavan, "Mechatronics", A.R.S. Publications, Sixth edition, 2014

T2.Ramesh S Gaonkar, "Microprocessor Architecture, Programming, and Applications with 5th Edition, Prentice Hall, 2008.

REFERENCE BOOKS

R1.Michael B.Histand and Davis G.Alciatore, "Introduction to Mechatronics and Measurement systems", McGraw Hill International edition, 2007.

R2.Devadas Shetty and Richard A. Kolk, "Mechatronics Systems Design", PWS publishing company, 2007.

R3.Clarence W, de Silva, "Mechatronics" CRC Press, First Indian Re-print, 2013

WEB RESOURCES

W1. http://ume.gatech.edu/mechatronics_course/Mechatronics_Systems.ppt (Topic.No:1)

W2. http://www.nptelvideos.in/2012/11/industrial-instrumentation.html (Topic.No:8)

W3. http://www.nptelvideos.in/2012/11/embedded-systems.html (Topic.No:18)

W4. http://www.slideshare.net/revanth_nrr/microprocessor-based-temperature-controller

(Topic.No:20)

W5. www.engr.sjsu.edu/bjfurman/courses/ME106/lectures/lecture_stepping_motors.ppt

(Topic.No:31)

W6.http://me.emu.edu.tr/majid/IENG447/IE%20447/PLC%20ppt.pdf

(Topic.No:36)

W7.http://seminarprojects.org/q/pick-and-place-robot-in-mechatronics-ppt (Topic.No:47)

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	UNIT I		INTRODUC	TION		(13)
01	Introduction to Mechatronics	T1 W1	1.1-1.2	PPT	1	01
02	Mechatronics approach	R3	4-6	BB	1	02
03	Need for Mechatronics	T1	1.6-1.7	ВВ	1	03
04	Emerging areas of Mechatronics	R3	8-9	ВВ	1	04
05	Classification of Mechatronics	T1	1.13-1.19	ВВ	1	05
06	Sensors and Transducers	T1	1.36-1.39	ВВ	1	06
07	Characteristics of Sensor	T1	1.40-1.43	ВВ	1	07
08	Potentiometers - LVDT	T1 W2	1.44-1.47	NPTEL	1	08
09	Capacitance sensors - Strain gauges	T1	1.48-1.50	SEM	1	09
10	Eddy current sensor	T1	1.61-1.71	BB	1	10
11	Hall effect sensor	T1	1.58-1.61	BB	1	11
12	Temperature sensors	T1	1.98-1.109	ВВ	1	12
13	Light sensors	T1	1.98-1.109	BB	1	13

- · Analyze the concept of measurement system
- · Realize the selection of sensors
- Ability to model and build mechatronic systems and implement these systems.

UNI	UNIT II MICROPROCESSOR AND MICROCONTROLLER						
14	Introduction	T2	32-34	BB	1	14	
15	Architecture of 8085	Т2	58-63	ВВ	1	15	
16	Pin Configuration	T2	662-666	BB	1	16	
17	Addressing Modes	T2	101-104	ВВ	1	17	
18	Instruction set	T2 W3	34-38	NPTEL	1	18	

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
19	Timing diagram of 8085	T2	105-108	BB	1	19
20	Concepts of 8051 microcontroller	T2 W4	633-634	PPT	1	20
21	Block diagram	T2	635-636	BB	1	21
22	Block diagram decoding	Т2	635-636	ВВ	1	22
23	8085 block diagram	T2	58-63	ВВ	1	23
24	8051 block diagram	T2	633-634	ВВ	1	24

At the end of unit, students should be able to

- Analyze the concept of 8051 microcontroller
- · Describe the recent technological changes.
- Realize the interfacing applications.
- Ability to programming model of the 8085 processor and its instruction set

UNIT III PROGRAMMABLE PERIPHERAL INTERFACE						
25	Introduction	T2	459-460	BB	1	25
26	Architecture of 8255	Т2	461-466	ВВ	1	26
27	Keyboard interfacing	T2	479-482	ВВ	1	27
28	LED display	T2	483-485	ВВ	1	28
29	interfacing, ADC and DAC interface	T2	404-416	SEM	1	29
30	Temperature Control	R2	210-213	ВВ	1	30
31	Stepper Motor Control	T1 W5	2.102-2.107	PPT	1	31
32	Traffic Control interface.	R2	214-216	ВВ	1	32
33	Temperature Interface	R2	214-216	ВВ	1	33

LEARNING OUTCOME

- Analyze the concept of Architecture of 8255
- · Describe Keyboard interfacing
- Realize the ADC and DAC interface

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	V	PROGRA	MMING LOG	IC CONTROLLI	ERS	(8)
34	Introduction and Basic structure	Т1	4.1-4.2	BB	1	34
35	Input and output processing	Т1	4.3-4.8	ВВ	1	35
36	Programming	T1 W6	4.10-4.13	PPT	1	36
37	Mnemonics	T1	4.14-4.16	ВВ	1	37
38	Timers	T1	4.17-4.22	SEM	1	38
39	Data handling	T1	4.25-4.30	ВВ	1	39
40	Selection of PLC	R3	976-983	ВВ	1	40
41	Counters	T1	4.25-4.30	ВВ	1	41

- Analyze the concept of Programmable Logic Controllers
- Realize the Data Handling Analogs Input / Output

UNIT	V ACTU	ATORS A	TORS AND MECHATRONIC SYSTEM DESIGN			
42	Types of Stepper motors	R1	453-456	ВВ	1	42
43	Construction - Working Principle	R1	457-463	BB	1	43
44	Design process- stages of design	Т1	5.1-5.3	ВВ	1	44
45	Traditional and Mechatronics design concepts	T1	5.4-5.6	ВВ	1	45
46	Case studies of Mechatronics systems	Т1	5.24-5.25	ВВ	1	46
47	Pick and place Robot	T1 W7	5.26-5.29	PPT	1	47

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
48	Automatic car park	T1	5.44-5.46	SEM	1	48
49	Types of Servo motors	R1	453-456	BB	1	49
50	Merits and limitations of Mechatronics design	R1	457-463	ВВ	1	50

At the end of unit, students should be able to

- Analyze the concept of Wireless surveillance balloon
- Describe various Stages in designing Mechatronics Systems
- Realize the Possible Design Solutions.
- Recognize the Traditional and Mechatronic Design

COURSE OUTCOME

At the end of the course, Students will be able to

- Ability to model and build mechatronic systems and implement these systems.
- Analyze the concept of 8051 microcontroller.
- Describe Keyboard interfacing.
- Realize the Data Handling Analogs Input / Output.
- The various Stages in designing Mechatronics Systems.

CONTENT BEYOND THE SYLLABUS

Design mechanical devices, sensors and actuators

INTERNAL ASSESSMENT DETAILS

ASST. NO.	1-16	11	MODEL
Topic Nos.		17-31	1-50
Date			

ASSIGNMENT DETAILS

ASSIGNMENT	I	II
Topic Nos. for reference/Activity	1-16	PCE
Deadline		

ASSIGNMENT I (20 Marks) (Before AT-I)	ASSIGNMENT II (20 Marks)(Before AT-II)
	reference
1-16	PCE activity:
 Write about the bimetallic strips. Write about the static characteristics. Define 'Hysteresis'. List down the type of proximity sensor. Mention the functions of a Mechatronics system. Part – B Explain the principles and working of Hall Effect Sensor and explain the basic elements of a closed loop system. Discuss how displacement is sensed by LVDT. With neat sketch show how it can be mode phase sensitive. Expand various merging areas of Mechatronics. 	1. Technical seminar: ✓ Latest Mechatronic applications. ✓ Satellite imaging. 2. Discussions: ✓ Neural network and Fuzzy logics. ✓ Automatic light control 3.APH topics: ✓ Addressing 8085 microprocessor ✓ Role of CALL and RET instructions 4. Poster presentation: ✓ Engine management system. ✓ Mnemonics and timers 5. Technical Quiz on: ✓ PLC ✓ Microprocessors 6. Identification of components: ✓ PLC ✓ Stepper motor Interface

Prepared by
ASWIN.M
AP/MECH

J. 100 123/4/19

Approved by **PRINCIPAL**

Verified By 81418







DEPARTMENT OF CIVIL ENGINEERING

SUBJECT: REMOTE SENSING TECHNIQUES AND GIS SEMESTER:VI

QUESTION BANK (CE6003)

Version-2

PREPARED BY Mr.K.ARUN/AP CIVIL

CE6003

REMOTE SENSING TECHNIQUES AND GIS

LT P C

3003

OBJECTIVES:

To introduce the students to the basic concepts and principles of various components of remote sensing.

To provide an exposure to GIS and its practical applications in civil engineering.

UNIT I EMR AND ITS INTERACTION WITH ATMOSPHERE & EARTH MATERIAL 9

Definition of remote sensing and its components – Electromagnetic spectrum – wavelength regions important to remote sensing – Wave theory, Particle theory, Stefan-Boltzman and Wein's Displacement Law – Atmospheric scattering, absorption – Atmospheric windows – spectral signature concepts – typical spectral reflective characteristics of water, vegetation and soil.

UNIT II PLATFORMS AND SENSORS

9

Types of platforms – orbit types, Sun-synchronous and Geosynchronous – Passive and Active sensors – resolution concept – Pay load description of important Earth Resources and Meteorological satellites – Airborne and spaceborne TIR and microwave sensors.

UNIT III IMAGE INTERPRETATION AND ANALYSIS

9

Types of Data Products – types of image interpretation – basic elements of image interpretation - visual interpretation keys – Digital Image Processing – Pre-processing – image enhancement techniques – multispectral image classification – Supervised and unsupervised.

UNIT IV GEOGRAPHIC INFORMATION SYSTEM

9

Introduction – Maps – Definitions – Map projections – types of map projections – map analysis – GIS definition – basic components of GIS – standard GIS software's – Data type – Spatial and non-spatial (attribute) data – measurement scales – Data Base Management Systems (DBMS).

UNIT V DATA ENTRY, STORAGE AND ANALYSIS

9

Data models – vector and raster data – data compression – data input by digitization and scanning – attribute data analysis – integrated data analysis – Modeling in GIS Highway alignment studies – Land Information System.

TOTAL: 45 PERIODS

TAFF INCHARGE (Mr.K.ARUN) HOD/CIVIL (Mrs.R.REVATHI)







DEPARTMENT OF CIVIL ENGINEERING COURSE PLAN

Sub. Code : CE6003 Branch / Year / Sem : B.E.CIVIL / III /VI

Sub.Name: REMOTE SENSING TECHNIQUES AND GIS **Batch**: 2016-2020

Staff Name : Mr.K.ARUN Academic Year : 2018-19 (EVEN)

COURSE OBJECTIVE

- 1. To introduce the students to the basic concepts of remote sensing.
- 2. To establish the principles of various components of remote sensing to the students.
- 3. To study about the various realistic applications of remote sensing.
- 4. To provide an exposure to Geographic Information System.
- 5. To know about the practical applications of GIS in civil engineering.

TEXT BOOKS

- **T1.** Lillesand,T.M., Kiefer, R.W. and J.W.Chipman. "Remote Sensing and Image Interpretation" 5th Edition., John Willey and Sons Asia Pvt. Ltd., New Delhi, 2004.
- **T2.** Anji Reddy, M. "Textbook of Remote Sensing and Geographical Information System" 2nd edition. BS Publications, Hyderabad, 2001.

REFERENCE BOOKS

- **R1.** Lo.C.P. and A.K.W.Yeung, "Concepts and Techniques of Geographic Information Systems", Prentice Hall of India Pvt. Ltd., New Delhi, 2002
- R2. Peter A.Burrough, Rachael A. McDonnell, "Principles of GIS", Oxford University Press, 2000.
- R3. Ian Heywood "An Introduction to GIS", Pearson Education Asia, 2000.
- **R4.** Shunlin Liang, Xiaowen Li, Jindi Wang, "Advanced Remote Sensing: Terrestrial Information Extraction and Applications", Academic Press, 2012.

WEB RESOURCES

W1. http://nature.berkeley.edu/~penggong/textbook/chapter2/html/sect24.	(Topic.No: 5)
W2. https://nptel.ac.in/courses/121107009/12	(Topic.No: 6)
W3.https://auhippo.com/tag/ce6003-remote-sensing-and-gis-notes/	(Topic.No: 8)
W4. https://nptel.ac.in/courses/105108077/module1/lecture1.pdf	(Topic.No: 10)
W5.http://engg3year.blogspot.com/2017/05/ce6003-remote-sensing-techniq	ues-and.html
	(Topic.No: 14)
W6.https://www.e-education.psu.edu/geog883/node/11	(Topic.No: 19)

W7. http://gisgeography.com/image-classification-techniques-remote-sensing (Topic.No:22) W8. http://www.nptelvideos.com/lecture.php?id=4491 (Topic.No:27)

W9. http://www.gitta.info/DataCompress/en/html/rastercomp_chain.html (Topic.No:28)

W10. https://en.wikipedia.org/wiki/Land_information_system (Topic.No:32)

W11.https://easyengineering.net/ce6003-remote-sensing-techniques-and/ (Topic.No:37)

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	EMR AND ITS INTERAC	CTION WITH	I ATMOSPH	IERE & EARTH N	MATERIAL	(9+1)
1.	Definition of remote sensing and its components	Т2	65-67	ВВ	1	1
2.	Electromagnetic spectrum	T2	70-72	PPT	1	2
3.	Wavelength regions important to remote sensing	T2 T1	76-78 5-7	PPT	1	3
4.	Wave theory, Particle theory, Stefan-Boltzman and Wein's Displacement Law	T1	4 - 9	ВВ	2	5
5.	Atmospheric scattering, absorption	T2 W1	80-83	PPT	1	6
6.	Atmospheric windows	T2 W2	84-86	NPTEL	1	7
7.	Spectral signature concepts	T1	20-21	BB	1	8
8.	Typical spectral reflective characteristics of water, vegetation and soil.	T2 T1 W3	87-89 17 – 20	PPT	2	10

At the end of unit, students should be able to understand the

- Basic components of Remote sensing
- Wavelength region of electromagnetic spectrum
- Fundamental concepts of wavelength theory

UNIT II PLATFORMS AND SENSORS						(9+1)
9.	Types of platforms	T1 R4	23-24 2 - 5	PPT	1	11
10.	Orbit types, Sunsynchronous and Geosynchronous	T2 W4	116 – 117	PPT	2	13
11.	Passive and Active sensors	T2 T1	120 -127 617, 697	PPT	1	14
12.	Resolution Concept	T1	38-39	BB	2	16
13.	Pay load description of important Earth Resources and Meteorological satellites	T2	132 - 135	ВВ	2	18
14.	Airborne and spaceborne TIR and microwave sensors.	T1 W5	667-619	PPT	2	20

At the end of unit, students should be able to

- Get knowledge about the Different types of satellites.
- Understand about the different types of sensors.
- Gather knowledge about payload description.

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT	'III IMA	AGE INTERP	RETATION .	AND ANALYSIS		(9+1)
15.	Types of Data Products	T1	190 - 192	BB	1	21
16.	Types of image interpretation	T1	194 - 195	BB	1	22
17.	Basic elements of image interpretation	T1	192 - 193	PPT	1	23
18.	Visual interpretation keys	T1	195-197	BB	2	25
19.	Digital Image Processing	T1 W6	470 – 471	PPT	1	26
20.	Pre-processing – image enhancement techniques	T2	488 - 489	PPT	1	27
21.	Multispectral image classification	T2	532 - 533	ВВ	1	28
22.	Supervised and unsupervised	T2 W7	555 – 559	PPT	2	30

LEARNING OUTCOME

At the end of unit, students should be able to

- Get knowledge of data products and image interprection techniques.
- Realize the techniques in visual interpretation.
- Understand the multispectral image classifications.

UNIT I	UNIT IV GEOGRAPHIC INFORMATION SYSTEM (
23.	Introduction – Maps – Definitions	T1 R3	47 – 48 32 - 40	ВВ	1	31	
24.	Map projections – types of map projections	T1	48 - 49	PPT	1	32	
25.	Map analysis – GIS definition	T1 R1	46 – 47 9 - 14	ВВ	1	33	
26.	Basic components of GIS	T1	44 - 51	PPT	2	35	
27.	Standard GIS softwares	W8		NPTEL	1	36	
28.	Data type – Spatial and non-spatial (attribute) data	T1 R2 W9	38, 45 – 47 32 – 34	PPT	2	38	
29.	Measurement scales	T1	127 - 128	BB	1	39	
30.	Data Base Management Systems (DBMS)	T1 T2 R2	45 - 47 357 - 358 47 - 48	ВВ	1	40	

LEARNING OUTCOME

- Recognize Basic components of Geographic Information system.
- Indentify the Definition and types of map projection.
- Know the Data Base Management Systems (DBMS).

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT	V WATER DIST	RIBUTION .	AND SUPPL	Y TO BUILDING	S	(9+1)
31.	Data models – vector and raster data	T1 T2 R3	49 - 51 333 -345 72 - 79	PPT	2	42
32.	Data compression	T1 W10	119 –120	PPT	1	43
33.	Data input by digitization and scanning	T2	388 - 393	PPT	2	45
34.	Attribute data analysis	T2	410-411	BB	1	46
35.	Integrated data analysis	T1	45 - 47	BB	1	47
36.	Modeling in GIS Highway alignment studies	R2	247 -248	PPT	2	49
37.	Land Information System	T2 W11	203 –205	PPT	1	50

At the end of unit, students should be able to

- Classify the Data Models.
- Understand the Types of data compression.
- Explain the Highway alignment using GIS.

COURSE OUTCOME

At the end of the course, the students will be able to

- Know the Basics of Remote Sensing
- Gathers Knowledge about the Sensors, Plaftorms used for Remote Sensing.
- Understand the Basic Image processing and its Techniques.
- Understand the basics in GIS and Data Base Management System.
- Classify the data types and Analysis the data for GIS Processing.

CONTENT BEYOND THE SYLLABUS

- Real time applications of Remote Sensing and GIS.
- Comprehend the Land Information System using GIS.

INTERNAL ASSESSMENT DETAILS

ASST. NO.	I	II	MODEL
Topic Nos.	1-11	12-22	1-37
Date			

ASSIGNMENT DETAILS

ASST. NO.	I	II
Topic Nos.	1-11	12-22
Date		

ASSIGNMENT DETAILS

ASSIGNMENT I BEFORE AT-I	ASSIGNMENT II BEFORE AT-II
Topic Nos.	for reference
1-11	12-22
PART - A	PART - A
 Write the expression of Stefan-Boltzmann law. What is called atmospheric windows? Define remote sensing. What do you mean by atmospheric scattering? Define particle theory. 	 Define the terms orbit and orbital plane. Distinguish between active and passive remote sensing. What is geo-synchronous orbit used for weather satellites? What are the different types of platforms? What do you mean by sun-synchronous satellite?
PART - B	PART - B
 Discuss on the spectral reflectance characteristics of water and vegetation in different spectral bands. Explain briefly about the atmospheric scattering phenomenon. 	 Discuss the classification of remote sensing based on platform. What is resolution of a sensor? Describe all sensor resolution.

PRESENTATION TOPICS

(B6 - Roll No: 49-57) BEFORE AT-II

- 1. Remote sensing and its componenets.
- 2. Atmospheric scattering and Windows.
- 3. Platforms and its types.
- 4. Different types of Sensors.
- 5. Digital image processing.
- 6. Types of image interpretation.
- 7. Maps and types of map projections.
- 8. GIS, its basic components and softwares.
- 9. Vector data and Raster data.
- 10. Real time applications in remote sensing & GIS.

Prepared by

Mr.K.ARUN

Verified By

HOD/CIVIL

Approved by PRINCIPAL







DEPARTMENT OF CIVIL ENGINEERING

SUBJECT: STRUCTURAL DYNAMICS AND EARTHQUAKE ENGINEERING

SEMESTER: VII

QUESTION BANK (CE6701)

(Version: 3)

PREPARED BY

Mr.K.ARUN/AP CIVIL

FORMAT: QP09

CE6701

STRUCTURAL DYNAMICS AND EARTHQUAKE ENGINEERING

LTPC 3003

OBJECTIVES:

The main objective of the course is to introduce dynamic loading and the dynamic performance of the structures to the students. Different types of dynamic loading are also to be discussed. The detailed study on the performance of structures under earthquake loading is also one of the focuses of the course.

UNITI - THEORY OF VIBRATIONS

9

Difference between static loading and dynamic loading – Degree of freedom – idealisation of structure as single degree of freedom system – Formulation of Equations of motion of SDOF system - D"Alemberts principles – effect of damping – free and forced vibration of damped and undamped structures – Response to harmonic and periodic forces.

UNIT II - MULTIPLE DEGREE OF FREEDOM SYSTEM

9

Two degree of freedom system – modes of vibrations – formulation of equations of motion of multi degree of freedom (MDOF) system - Eigen values and Eigen vectors – Response to free and forced vibrations - damped and undamped MDOF system – Modal superposition methods.

UNIT III - ELEMENTS OF SEISMOLOGY

9

Elements of Engineering Seismology - Causes of Earthquake - Plate Tectonic theory - Elastic rebound Theory - Characteristic of earthquake - Estimation of earthquake parameters - Magnitude and intensity of earthquakes - Spectral Acceleration.

UNIT IV - RESPONSE OF STRUCTURES TO EARTHQUAKE

9

Effect of earthquake on different type of structures – Behaviour of Reinforced Cement Concrete, Steel and Prestressed Concrete Structure under earthquake loading – Pinching effect – Bouchinger Effects – Evaluation of earthquake forces as per IS:1893 – 2002 - Response Spectra – Lessons learnt from past earthquakes.

UNIT V - DESIGN METHODOLOGY

q

Causes of damage – Planning considerations / Architectural concepts as per IS:4326 – 1993 – Guidelines for Earthquake resistant design – Earthquake resistant design for masonry and Reinforced Cement Concrete buildings – Later load analysis – Design and detailing as per IS:13920 – 1993.

TOTAL: 45 PERIODS

SIGNATURE OF STAFF INCHARGE

HOD/CIVIL





Anna University, Chennai)



DEPARTMENT OF CIVIL ENGINEERING COURSE PLAN

Sub. Code :CE6701 Branch / Year / Sem: B.E Civil / IV /VII

Sub Name :Structural Dynamics and

Earthquake Engineering Batch : 2015-2019

Staff Name : Mr.K.Arun Academic Year : 2018-19 (ODD)

COURSE OBJECTIVE

- To introduce dynamic loading and assess the dynamic performance of the structures.
- To know about the theory of vibrations and learn the elements of Seismology...
- To analyze the multiple degree of freedom system.
- To learn the different types of dynamic loadings in detail.
- To study the performance of structures under earthquake loading.

TEXT BOOKS

T1.Chopra, A.K., "Dynamics of Structures – Theory and Applications to EarthquakeEngineering", 4th Edition, Pearson Education, 2011.

T2.Agarwal.P and Shrikhande. M., "Earthquake Resistant Design of Structures", Prentice Hall of India Pvt. Ltd. 2007.

REFERENCE BOOKS

R1.S.R.Damodarasamy and S.Kavitha., "Basics of Structural Dynamics and Aseismic Design", PHI Learning Private Limited, Delhi, 2015.

R2.S.Elavenil., "Structural Dynamics and Earthquake Engineering", AR Publications, Chennai.

R3. Biggs, J.M., "Introduction to Structural Dynamics", McGraw Hill Book Co., New York, 1964

R4. Dowrick, D.J., "Earthquake Resistant Design", John Wiley & Sons, London, 2009

R5. Paz, M. and Leigh.W. "Structural Dynamics – Theory & Computation", 4th Edition, CBS Publishers & Distributors, Shahdara, Delhi, 2006.

WEB RESOURCES

W1. http://nptel.ac.in/courses/105106151/3 (Topic.No:1-2)

W2. http://nptel.ac.in/courses/105106151/48 (Topic.No:14-15)

W3. http://nptel.ac.in/courses/105101004/downloads/01%20Chapter.pdf (Topic.No:16-23)

W4. http://nptel.ac.in/courses/105101004/downloads/04%20Chapter.pdf (Topic.No:28)

W5. http://nptel.ac.in/courses/105105104/pdf/m16l39.pdf (**Topic. No:32**)

W6. http://www.rejinpaul.com/2016/10/ce6701-structural-dynamics-and-earthquake-

engineering-syllabus-notes-question-bank-with-answers.html (Topic. No:3-8)

W7. www.dce.edu.in/question-bank/ce6701-sdee-civil-viis-au.pdf (Topic.No:30-35)

W8. https://www.ct.upt.ro/users/AurelStratan/sdee/en-curs04_sdee.pdf (**Topic.No:24-27**)

W9. https://www.vidyarthiplus.com/vp/thread-35768.html (Topic.No:9-13)

W10. studentskey.in/structural-dynamics-and-earthquake-engineering-notes/ (Topic.No:29)

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I		THEOR	Y OF VIBE	RATIONS		(9+2)
1.	Difference between static loading and dynamic loading	R1,W1	3-4	ВВ	1	1
2.	Degree of freedom	R1, W1	7-9	NPTEL	1	2
3.	Idealisation of structure as single degree of freedom system	R1,W6	16-19	ВВ	1	3
4.	Formulation of equation of motions for single degree of freedom system	R1, W6	23-26	ВВ	1	4
5.	D'Alemberts principle	R1, W6	22-23	BB	1	5
6.	Effect of Damping	R1, W6	42-43	PPT	1	6
7.	Free and Forced vibration of damped and undamped structures.	R1,W6	43-56	ВВ	1	7
8.	Response to harmonic and periodic forces.	R1, W6	65-90 98-108	ВВ	2	9
-	Revision	-	-	BB	2	11

At the end of unit, students should be able to

- Know the difference between static and dynamic loading.
- Formulate the equation of motions for single degree of freedom system.
- Understand the effects of damping.

UNIT I	I MUL'	TIPLE DEGF	REE OF FR	EEDOM SYSTEN	1	(9+2)
9.	Two degree of freedom system	R1, W9	126-127	ВВ	2	13
10.	Modes of vibration	R1, W9	127-137	PPT	1	14
11.	Formulation of equations of motion of MDOF	R1, W9	165-174	ВВ	2	16
12.	Eigen values and Eigen Vectors.	R1, W9	130-131	BB	1	17
13.	Response to free and forced vibrations.	R1, W9	159, 165	ВВ	1	18
14.	Damped and Undamped MDOF system.	R1, W2	159- 160, 162-163	NPTEL	1	19
15.	Modal superposition methods.	R1, W2	163-164	PPT	1	20
-	Revision	-	-	BB	2	22

LEARNING OUTCOME

- Solve the equations of motion of multi degree of freedom system.
- Explain about Eigen values and Eigen Vectors.
- Describe the response to free and forced vibrations.

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	II	ELEMEN	TS OF SEIS	SMOLOGY		(9+2)
16.	Elements of Engineering Seismology	R1, W3	175	ВВ	1	23
17.	Causes of Earthquake	R1, W3	175-176	PPT	1	24
18.	Plate Tectonic theory	R1, W3	176-180	NPTEL	1	25
19.	Elastic rebound Theory	R1, W3	180-181	BB	1	26
20.	Characteristic of earthquake	R2, W3	3.9-3.13	BB	2	28
21.	Estimation of earthquake parameters	R2, W3	3.13- 3.16	BB	1	29
22.	Magnitude and intensity of earthquakes	R2, W3	3.16- 3.22	BB	1	30
23.	Spectral Acceleration	R2, W3	3.23	BB	1	31
-	Revision	-	-	BB	2	33

At the end of unit, students should be able to

- Understand the causes of earthquake.
- Estimate the earthquake parameters.
- Describe the magnitude and intensity of earthquakes.

UNIT	IV RESPO	NSE OF STR	UCTURES	TO EARTHQUA	AKE	(9+2)
24.	Effect of earthquake on different type of structures	R2, W8	4.2-4.5	PPT	1	34
25.	Behavior of Reinforced Cement Concrete, Steel and Prestressed Concrete Structure under earthquake loading	R2, W8	4.5-4.14	ВВ	3	37
26.	Pinching effect, Bouchinger Effects	R2, W8	4.15- 4.18	ВВ	1	38
27.	Evaluation of earthquake forces as per IS:1893 – 2002	R2, W8	4.18- 4.21	ВВ	1	39
28.	Response Spectra	R2, W4	4.22- 4.27	NPTEL	1	40
29.	Lessons learnt from past earthquakes	R2,W10	4.27- 4.36	BB	2	42
-	Revision	-	-	BB	2	44

LEARNING OUTCOME

- Understand the behavior of Reinforced Cement Concrete, Steel and Prestressed Concrete Structure under earthquake loading.
- Learn the lessons from the past earthquakes.
- Evaluate the earthquake forces as per IS 1893-2002

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT	V	DESIGN M	ETHODOI	LOGY		(9+2)
30.	Causes of damage	R2, W7	5.1-5.12	BB	1	45
31.	Planning considerations/ Architectural concepts as per IS:4326 – 1993	R2, W7	5.13- 5.30	PPT	2	47
32.	Guidelines for Earthquake resistant design	R2, W5	5.30- 5.42	NPTEL	1	48
33.	Earthquake resistant design for masonry andReinforced Cement Concrete buildings	R2, W7	5.42- 5.52	ВВ	1	49
34.	Later load analysis	R2, W7	5.52- 5.75	BB	2	51
35.	Design and detailing as perIS:13920 – 1993	R2, W7	5.76- 5.85	BB	2	53
-	Revision	-	-	BB	2	55

At the end of unit, students should be able to

- Know the guidelines for earthquake resistant design.
- Design and detail as per IS:13920-1993.
- Understand the causes of damage in buildings.

COURSE OUTCOME

At the end of the course, the students will be able to

- Have the knowledge to analyse structures subjected to dynamic loading.
- Design the structures for seismic loading as per code provisions.
- Solve structures using the multiple degree of freedom system.
- Know Ductility design concepts and detailing as per IS:13920-1993.
- Describe the basic concepts of seismology.

CONTENT BEYOND THE SYLLABUS

• Overview of buildings with base isolation technique.

INTERNAL ASSESSMENT DETAILS

ASST. NO.	I	II	MODEL
Topic Nos.	1-12	13-23	1-35
Date			

ASSIGNMENT DETAILS

110014111111111111111111111111111111111			
ASST. NO.	I	II	
Topic Nos.	1-12	13-23	
Date			

ASSIGNMENT DETAILS	
ASSIGNMENT I (30 MARKS)	ASSIGNMENT II (30 MARKS)
BEFORE AT-I	BEFORE AT-II
Topic Nos. for	reference
1-12	13-23
PART - A	PART - A
1. Write D'Alembert's principle on dynamic	1. Write any two assumptions that are
equilibrium.	made in the idealization of a shear
2. State the Newton's second law of motion.	building.
3. Distinguish between free and forced	2. Enumerate dynamic equilibrium.
vibrations.	3. What is a seismogram? Write its uses.
4. What are eigen values and eigen vectors?	4. Compare magnitude and intensity of an
5. What are the two degrees of freedom	earthquake.
system?	5. What is elastic rebound theory?
<u>PART - B</u>	PART - B
1. Derive the equation of motion of SDOF	1. Derive the orthogonality relation
system for free vibration and hence find the	between the modal shape of a two
solution for	degree of freedom
(i)Under damped system	2. Write in detail about seismograph with
(ii)Critically damped system	neat diagram and their classification

PRESENTATION TOPICS

B1 (R.NO:1-10)

- 1. Degrees of freedom.
- 2. Effects of Damping.
- 3. Modes of Vibration.
- 4. Eigen values and Eigen Vectors.
- 5. Characteristics of earthquake.

(iii)Over Damped system

2. Derive the equation of motion of a two

degree of freedom system for free vibration.

- 6. Plate tectonic and Elastic Rebound theory.
- 7. Evaluation of earthquake forces.
- 8. Case study on past earthquakes.
- 9. Later load analysis.

Mr.K.ARUN

10. Earthquake resistant design.

J. Mulatio

Approved by PRINCIPAL Verified By
HOD/CIVIL



COLLEGE OF ENGINEERING (NAAC Accredited Institution) (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT: DESIGN AND ANALYSIS OF ALGORITHM

SEMESTER: IV

QUESTION BANK (CS6402)
(Version: 4)

PREPARED BY
Mr.R.SRIRAMKUMAR/CSE

CS6402

DESIGN AND ANALYSIS OF ALGORITHMS

LTPC 3003

UNITI

INTRODUCTION

9

Notion of an Algorithm - Fundamentals of Algorithmic Problem Solving - Important Problem Types -Fundamentals of the Analysis of Algorithm Efficiency – Analysis Framework – Asymptotic Notations and its properties – Mathematical analysis for Recursive and Non-recursive algorithms. UNIT II

BRUTE FORCE AND DIVIDE-AND-CONQUER

9

Brute Force - Closest-Pair and Convex-Hull Problems-Exhaustive Search - Traveling Salesman Problem -Knapsack Problem - Assignment problem.Divide and conquer methodology – Merge sort – Quick sort – Binary search - Multiplication of Large Integers - Strassen's Matrix Multiplication-Closest-Pair and Convex-Hull Problems.

UNIT III

DYNAMIC PROGRAMMING AND GREEDY TECHNIQUE

9

Computing a Binomial Coefficient - Warshall's and Floyd' algorithm - Optimal Binary SearchTrees -Knapsack Problem and Memory functions. Greedy Technique- Prim's algorithm- Kruskal Algorithm-Dijkstra's Algorithm-Huffman Trees.

UNIT IV

ITERATIVE IMPROVEMENT

9

The Simplex Method-The Maximum-Flow Problem - Maximm Matching in Bipartite Graphs- TheStable marriage Problem.

COPING WITH THE LIMITATIONS OF ALGORITHM POWER **UNIT V**

9

of Algorithm Power-Lower-Bound Arguments-Decision Trees-P, NP CompleteProblems--Coping with the Limitations - Backtracking - n-Queens problem - Hamiltonian CircuitProblem - Subset Sum Problem-Branch and Bound - Assignment problem - Knapsack Problem -Traveling Salesman Problem- Approximation Algorithms for NP - Hard Problems - TravelingSalesman problem - Knapsack problem.

TOTAL: 45 PERIODS

TEXT BOOKS

T1. Anany Levitin, "Introduction to the Design and Analysis of Algorithms", Third Edition, Pearson Education, 2012.

REFERENCE BOOKS

R1.Thomas H.Cormen, Charles E.Leiserson, Ronald L. Rivest and Clifford Stein, "Introduction to Algorithms", Third Edition, PHI Learning Private Limited, 2012.

R2. Alfred V. Aho, John E. Hopcroft and Jeffrey D. Ullman, "Data Structures and Algorithms", Pearson Education, Reprint 2006.

R3. Donald E. Knuth, "The Art of Computer Programming", Volumes 1& 3 Pearson Education, 2009. Steven S. Skiena, "The Algorithm Design Manual", Second Edition, Springer, 2008.

SIGNATURE OF STAFF INCHARGE

SIGNATURE OF HOD



(NAAC Accredited Institution) (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sub. Code : CS6402 Branch / Year / Sem : B.E CSE /II/ IV

Sub.Name

: Design and Analysis of Algorithm

: 2016-2020

Staff Name

Batch

: R.Sriramkumar

: 2017-18 (EVEN) Academic Year

COURSE OBJECTIVE

The student should be made to:

Learn the algorithm analysis techniques.

Become familiar with the different algorithm design techniques.

Understand the limitations of Algorithm power.

TEXT BOOKS

T1. Anany Levitin, "Introduction to the Design and Analysis of Algorithms", Third Edition, Pearson Education, 2012.

REFERENCE BOOKS

R1. Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein, "Introduction to Algorithms", Third Edition, PHI Learning Private Limited, 2012.

R2. Alfred V. Aho, John E. Hopcroft and Jeffrey D. Ullman, "Data Structures and Algorithms",

Pearson Education, Reprint 2006.

R3. Donald E. Knuth, "The Art of Computer Programming", Volumes 1& 3 Pearson Education, 2009. Steven S. Skiena, "The Algorithm Design Manual", Second Edition, Springer, 2008.

WEB RESOURCES

W1. http://people.cs.clemson.edu/~pargas/courses/common/notes/ppt/

Analysis Framework.ppt (Topic No.05)

W2.http://people.cs.clemson.edu/~pargas/courses/common/notes/ppt/

Prim Kruskal.ppt (Topic No.21)

W3.http://people.cs.clemson.edu/~pargas/courses/cs212/common/notes/ppt/ the Simplex Method.ppt (Topic.No:24)

W4. http://www.cs.utsa.edu/~bylander/cs3343/Bipartite Graphs.pdf(Topic No: 26, 27)

W5. http://www.nptel.ac.in/courses/106101060/Approximation Algorithms for NP (Topic No: 34)

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I		INTRO	DUCTION			(9
1.	Notion of an Algorithm	T1	3-8	BB	1	1
2.	Fundamentals of Algorithmic Problem Solving	R3	9-15	ВВ	1	2
3.	Important Problem Types	T1	18-22	BB	1	3
4.	Fundamentals of the Analysis of Algorithm Efficiency	T1	41-42	ВВ	1	4
5.	Analysis Framework	T1,W1	42-50	PPT,BB	1	5
6.	Asymptotic Notations and its properties	R2	107-110	BB	2	7
7.	Mathematical analysis for Recursive and Non-recursive algorithms	T1	61-70	ВВ	2	9

At the end of unit, students should be able to

Analyze the efficiency of algorithm

Understand the important problem types

UNIT I	I BRU	TE FORCE A	ND DIVIDE	E-AND-CONQUE	R	(9)
8.	Brute Force - Closest- Pair and Convex-Hull Problems	Т1	97-108	ВВ	1 1	10
9.	Exhaustive Search - Traveling Salesman Problem - Knapsack Problem -	Т1	115-116	ВВ	1 2000	TTIII pikei
10.	Assignment problem.	T1	119-124	BB	1 17 1	12
11.	Divide and conquer methodology	T1	169-172	ВВ	1	13
12.	Merge sort – Quick sort – Binary search	T1	150-176	ВВ	1	14
13.	Multiplication of Large Integers	T1	187-188	ВВ	2	16
14.	Strassen's Matrix Multiplication-	T1	189-190	ВВ	1	17
15.	Closest-Pair and Convex- Hull Problems.	Т1	192-195	BB, SEMINAR-1	1	18

LEARNING OUTCOME

At the end of unit, students should be able to

Understand the brute force approach for sorting problem.

Understand the concept of assignment problems

PROGRAM	IMING AND GR	EEDY TECHI	VIQUE	(9
T1	283-285	ВВ	1	19
Т1	304-308	ВВ	1	20
	Т1	T1 283-285	T1 283-285 BB	

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
18.	Optimal Binary Search Trees	T1	297-300	BB	A STATE OF THE STA	21
19.	Knapsack Problem and Memory functions.	T1	292-295	BB	1	22
20.	Greedy Technique Prim's algorithm	T'1.	315-320	в ВВ	2.	24
21.	Kruskal's Algorithm	W2	22-41	PPT	The second secon	25
22.	Dijkstra's Algorithm	T1	333-337	BB	to the second of the control of the second o	26
	Huffman Trees	R1	329-337	BB		27

At the end of unit, students should be able to

- Describe and use major algorithmic techniques (Greedy technique etc.,).
- Know a variety of greedy algorithms; know the basic ingredients of a greedy algorithm, and how to approach arguing the correctness of such algorithms

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UNIT IV	ITEI	ITERATIVE IMPROVEMENT				
24.	The Simplex Method	W3	1-19	PPT,BB	t varue es authorismo du nicorium enchante de portunidade e	towards the control of the second control of the second control of the control of
25.	The Maximum-flow problem	Т1	361-371	BB	2	31
26.	Maximum Matching in	T1,W4	11-14	BB, PPT	2	33
27.	Bipartite Graphs The Stable marriage	T1,W4	15-19	BB, SEMINAR-2	3	36

LEARNING OUTCOME

Problem

At the end of unit, students should be able to

Solve the optimization problems.

	Solve the optimization problem is a solve the Bipartite graph pro- COPING WITH	blems. THE LIM	ITATIONS OF	ALGORITHM	POWER	(9)
NIT V	A STATE OF THE STA				NOTIFIED THE PROPERTY OF THE P	
28.	Limitations of Algorithm Power-Lower-Bound	T1	387-390	BB	1.	37
29.	Arguments -Decision Trees-P, NP and NP-Complete	T1	397-406	ВВ	1	38
30.	Problems Coping with the Limitations	T1	424-425	ВВ	1.	39
31.	Backtracking – n-Queens problem – Hamiltonian Circuit Problem	T1	425-426	ВВ	1	40
32.	Subset Sum Problem- Branch and Bound – Assignment problem	T1	427-433	BB	T.	41
33,	Knapsack Problem – Traveling Salesman	Т1	463-438	ВВ	1	42

Problem

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	Approximation Algorithms for NP	W5	NPTEL	PPT	1 317	43
	Hard Problems – Traveling Salesman problem	T1	443-451	BB	1	44
	Knapsack problem.	T1	453-456	BB	1	45

At the end of unit, students should be able to

- Know some standard NP-Complete problems and know the basics of an NP-hardness
- Understand the concept of shortest path problems.

COURSE OUTCOME

At the end of the course, the students will be able to

- Design algorithms for various computing problems.
- Analyze the time and space complexity of algorithms.
- Critically analyze the different algorithm design techniques for a given problem.
- Modify existing algorithms to improve efficiency.

CONTENT BEYOND THE SYLLABUS

RED - BLACK TREE

INTERNAL ASSESSMENT DETAILS

ASST. NO. Topic Nos.	I	II	MODEL
	1-11	12-23	1-36
Date	,		

INTERNAL ASSIGNMENT DETAILS

ASSIGNMENT	Ι	II
Topic Nos. for	1-11	12-23
reference		
Deadline		_

Assignment I (30 Marks) (Before AT - I)

- 1. What is an algorithm
- 2. What are the components of fixed and variable part in space complexity?
- 3. Differentiate Time Complexity from Space complexity.
- 4. What is closest-pair problem?
- 5. What do you mean by divide and conquer strategy?

Part B

- 1. Briefly explain the mathematical analysis of recursive and non-recursive algorithm.
- 2. Explain the convex hull problem and the solution involved behind it.

Assignment II (30 Marks) (Before AT - II)

Part A

- 1. Define Assignment Problem?
- 2. What is traveling salesman problem?
- 3. Define the single source shortest path problem
- 4. List out the advantages of dynamic programming
- 5. What is meant by principle of optimality?

Part B

- 1. Distinguish between Quick sort and Merge sort, and arrange the following numbers in increasing order using merge sort. (18, 29, 68, 32, 43,37, 87, 24, 47, 50)
- 2. Describe all pairs shorest path problem and write procedure to compute length of shortest paths

Presentation Topics

Batch I (Roll No: 16 - 30)

- 1. Applications of B-Tree
- 2. Emerging trends in virtual reality applications
- 3. Role of Huffman -codes in algorithm
- 4. Case Study about Bellman-Ford algorithm
- 5. Role of bubble sort with computational complexity

Prepared by

Mr.R.Sriramkumar

HOD/CSE

Approved by PRINCIPAL

FORMAT: QP09 KCE/DEPT. OF CSE







DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT: CRYPTOGRAPHY AND NETWORK SECURITY

SEMESTER: VII

QUESTION BANK (CS6701)

(Version: 2)

PREPARED BY R.SRIRAMKUMAR, AP / CSE

FORMAT: QP09

KCE/DEPT. OF CSE

CS6701

CRYPTOGRAPHY AND NETWORK SECURITY

C 3 3 0

UNIT I

INTRODUCTION & NUMBER THEORY

10

Services, Mechanisms and attacks-the OSI security architecture-Network security model-Classical Encryption techniques (Symmetric cipher model, substitution techniques, transposition techniques, steganography). FINITE FIELDS AND NUMBER THEORY: Groups, Rings, Fields-Modular arithmetic-Euclid's algorithm-Finite fields- Polynomial Arithmetic -Prime numbers-Fermat's and Euler's theorem-Testing for primality -The Chinese remainder theorem- Discrete logarithms.

BLOCK CIPHERS & PUBLIC KEY CRYPTOGRAPHY

10

Data Encryption Standard-Block cipher principles-block cipher modes of operation-Advanced Encryption Standard (AES)-Triple DES-Blowfish-RC5 algorithm. Public key cryptography: Principles of public key cryptosystems-The RSA algorithm-Key management - Diffie Hellman Key exchange-Elliptic curve arithmetic-Elliptic curve cryptography.

HASH FUNCTIONS AND DIGITAL SIGNATURES **UNIT III**

8

Authentication requirement - Authentication function - MAC - Hash function - Security of hash function and MAC -MD5 - SHA - HMAC - CMAC - Digital signature and authentication protocols - DSS - El Gamal - Schnorr.

SECURITY PRACTICE & SYSTEM SECURITY **UNIT IV**

Authentication applications - Kerberos - X.509 Authentication services - Internet Firewalls for Trusted System: Roles of Firewalls - Firewall related terminology- Types of Firewalls - Firewall designs - SET for E-Commerce Transactions. Intruder - Intrusion detection system - Virus and related threats -Countermeasures - Firewalls design principles - Trusted systems - Practical implementation of cryptography and security.

E-MAIL, IP & WEB SECURITY UNIT V

E-mail Security: Security Services for E-mail-attacks possible through E-mail establishing keys privacy-authentication of the source-Message Integrity-Nonrepudiation-Pretty Good Privacy-S/MIME. IPSecurity: Overview of IPSec - IP and IPv6-Authentication Header-Encapsulation Security Payload (ESP)-Internet Key Exchange (Phases of IKE, ISAKMP/IKE Encoding). Web Security: SSL/TLS Basic Protocolcomputing the keys- client authentication-PKI as deployed by SSLAttacks fixed in v3-Exportability-Encoding-Secure Electronic Transaction (SET).

SIGNATURE OF STAFF INCHARGE

TOTAL: 45 PERIODS

HOD/CSE

CNS 2

KCE/CSE/QB/IV YR/CNS







DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING **COURSE PLAN**

Sub. Code

: CS6701

Branch / Year / Sem : B.E CSE / IV /VII

Sub.Name

: Cryptography and Network Security

Batch

: 2014-2018

Staff Name

:Mr. R.Sriramkumar

Academic Year: 2017-18 (ODD)

COURSE OBJECTIVE

1. Understand OSI security architecture and classical encryption techniques.

2. Acquire fundamental knowledge on the concepts of finite fields and number theory.

3. Understand various block cipher and stream cipher models.

4. Describe the principles of public key cryptosystems, hash functions and digital signature.

TEXT BOOKS

T1. William Stallings, Cryptography and Network Security, 6th Edition, Pearson Education, March 2013

REFERENCE BOOKS

R1. Behrouz A. Ferouzan, "Cryptography & Network Security", Tata Mc Graw Hill, 2007.

R2. Man Young Rhee, "Internet Security: Cryptographic Principles", "Algorithms and Protocols", Wiley Publications, 2003.

WEB RESOURCES

W1. www.cs.nthu.edu.tw/~cchen/CS4351/ch7.ppt (Topic.No:11)

W2. www.fi.muni.cz/usr/.../CHAPTER%2005%20-%20Public-key%20cryptography.ppt

(Topic.No:17)

W3. www.cs.sjsu.edu/~stamp/CS265/projects/papersSpr03/MD5.ppt (Topic.No:26)

W4. www.letu.edu/people/jaytevis/Network-Security/Stallings.../chapter-11-firewalls.ppt

(Topic.No:36)

W5. https://www.purdue.edu/securepurdue/docs/training/Cryptography.ppt (Topic.No:40)

W6. http://nptel.ac.in/courses/106105031/33 (Topic.No:23)

Topic No UNIT I	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	INTRODUCTION & NUMB	ER THEORY				(10)
1.	Services, Mechanisms and attacks	R1 T1	6-8 17-20	ВВ	1	1
2.	the OSI security architecture Network security model	T1	14-17	ВВ	1	2
3.	techniques (Symmetric cipher model, substitution techniques, transposition techniques, steganography).	T1	27-54	BB	1	3
4.	FINITE FIELDS AND NUMBER THEORY Groups Rings, Fields	T1	99- 102	ВВ	1	4
5.	Modular arithmetic	T1	91-99	ВВ	1	5
6.	Euclid's algorithm-Finite fields	T1 .	88-90	ВВ	1	6
7.	Polynomial Arithmetic	T1	106- 111	ВВ	1	7
8.	Prime numbers	T1	232- 235			
9.	Fermat's and Euler's theorem- Testing for primality	T1	236- 241	ВВ	1	8
10.	The Chinese remainder theorem	T1	242- 243	ВВ	1	9
11.	Discrete logarithms.	T1 · W1	244- 247	PPT	1	10

At the end of unit, students should be able to

Learn the need for computer security.

- Understand the different types of attacks and services

UNIT II BLOCK CIPHERS & PUBLIC KEY CRYPTOGRAPHY							
12.	Data Encryption Standard-	T1	72-74	BB	1	11	
13.	Block cipher principles- block cipher modes of operation	T1	78-80	ВВ	1	12	
14.	Advanced Encryption Standard (AES)	T1 .	129- 155	ВВ	1	13	

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of Periods
15.	Triple DES-Blowfish	71	71-73	BB	1	14
16.	RC5 algorithm. Public key cryptography	R2	84-92	BB	1	15
17.	Principles of public key cryptosystems	T1 W2	256- 263	PPT	1	16
18.	The RSA algorithm, Key management	7'1	264- 277	ВВ	1	17
19.	Diffie Hellman Key exchange	T1	287- 292	ВВ	1	18
20.	Elliptic curve arithmetic-	Т1	295- 302	BB	1	19
21.	Elliptic curve cryptography.	Т1	303- 305	ВВ	1	20

- Implement the Data Encryption Standard
- Gain knowledge of Advanced Encryption Standard
- Identify the various Security algorithm

	II HASH FUNCTIONS AND					(8)
22.	Authentication requirement	T1	357- 364	ВВ	1	21
23.	Authentication function	T1 W6	315- 320	NPTEL	1	22
24.	MAC, Hash function	T1	340- 344	BB	1	23
25.	Security of hash function and MAC	Т1	329- 350	BB	1	24
26.	MD5 – SHA	T1 W3	368- 375	РРТ	1	25
27.	HMAC – CMAC	T1	368- 375	BB	1	26
28.	Digital signature and authentication protocols	T1	395- 397	ВВ	1	27
29.	DSS – El Gamal – Schnorr.	Т1	398- 401	BB	1	28

Topic No	Topic	Books for Reference	. 7	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	- 15					

At the end of unit, students should be able to

- Compare various versions of Hash functions.
- Manage the concepts of Digital signature.

INIT	T IV SECURITY PRACTICE & SYSTEM SECURITY					
30.	Authentication applications, Kerberos	T1	454- 475	ВВ	1	29
31.	X.509 Authentication services	T1	435- 442	ВВ	1	30
32.	Internet Firewalls for Trusted System	T1	339- 343	ВВ	1	31
33.	Types of Firewalls – Firewall designs, SET for E-Commerce Transactions.	Т1	344- 352	ВВ	1	32
34.	Intruder – Intrusion detection system	T1	565- 581	BB	1	33
35.	Virus and related threats - Countermeasures -	Т1	599- 613	BB	1	34
36.	Firewalls design principles Trusted systems	T1 W4	622- 639	PPT	1	35
37.	Practical implementation of cryptography and security	T1	653- 656	ВВ	1	36

LEARNING OUTCOME

- Analyze & Compare of various authentication applications
- Learn the technology of virus and antivirus.
- Classify the various types of firewalls

UNIT V	UNIT V E-MAIL, IP & WEB SECURITY								
2 - 1	E-mail Security: Security Services for E-mail-attacks possible through E-mail	R2	51-53	ВВ	1	37			
	establishing keys privacy- authentication of the source	T1	319- 330	ВВ	1	38			
	Message Integrity-Non- repudiation	W5	WEB	PPT	1,	39			

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
41.	Pretty Good Privacy- S/MIME	Т1	591- 614	BB	1	40
42.	IP Security: Overview of IPSec – IP and IPv6- Authentication Header	T1 R2	626- 637 243-	BB	1	41
43.	Encapsulation Security Payload (ESP)-Internet Key Exchange (Phases of IKE,	T1 R1	638- 657 552- 557	ВВ	1	42
44.	ISAKMP/IKE Encoding) Web Security: SSL/TLS Basic Protocol-computing the keys	R2	277- 302	ВВ	1	43
45.	client authentication-PKI as deployed by SSLAttacks fixed in v3	Т1	428- 430	BB	1	44
46.	Exportability-Encoding- Secure Electronic Transaction (SET)	T1	549- 560	ВВ	1	45

At the end of unit, students should be able to

- Create the Password and protection
- Describe the concepts of Transport layer security

COURSE OUTCOME

At the end of the course, the students will be able to

- Outline knowledge on basics of security
- Describe various security algorithms
- Possess knowledge on hash algorithm and digital signature
- Understand applications implementing security technology
- · Gain knowledge on intrusion detection, security attacks and firewalls.

CONTENT BEYOND THE SYLLABUS

1. Case study on cryptography as an operating system.

INTERNAL ASSESSMENT DETAILS

ASST. NO.	I	11	MODEL
Topic Nos.	1-16	17-29	1-46
Date		-	2

FORMAT: QP09

KCE/DEPT. OF CSE

ASSIGNMENT DETAILS .

ASSIGNMENT	1	11	III
Topic Nos. for reference	1-16	17-29	1-46
Deadline	10.07.17	14.08.17	11.09.17

BATCH	ASSIGNMENT I (10) BEFORE AT-I	ASSIGNMENT II (10) BEFORE AT-II	ASSIGNMENT III (10) BEFORE MODEL
B1 Roll No. (1-11)	Presentation Topics 1. Explain briefly about Fermat's theorems. Roll No(1-6) 2. Explain briefly about Euler's Theorem Roll No(7-11)	Explain the Miller-Rabin Algorithm	Elaborately explain Kerberos authentication mechanism with suitable diagrams. Explain the types of intrusion
B2 Roll No.	Explain in detail about OSI Security Architecture?	in detail	Detection Systems.
B3 Roll No.	Describe about RC4 algorithm	Explain Digital Signature with ElGamal public key cryptosystem	Describe the Secure Socket Layer Architecture in detail

Prepared by Mr.R.Sriramkumar

Approved by PRINCIPAL

Verified By HOD/CSE

CNS 8

KCE/CSE/QB/IV YR/CNS







DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT: DIGITAL PRINCIPLES AND SYSTEM DESIGN

(version:3)

SEMESTER: II

PREPARED BY

Mrs. D. VENNILA / ECE

CS 6201

DIGITAL PRINCIPLES AND SYSTEM DESIGN

L TPC 3 00 3

UNIT I

BOOLEAN ALGEBRA AND LOGIC GATES

9

Review of Number Systems-Arithmetic Operations -Binary Codes -Boolean Algebra and Theorems -Boolean Functions -Simplification of Boolean Functions using Karnaugh Map and Tabulation Methods -Logic Gates -NAND and NOR Implementations.

UNIT II COMBINATIONAL LOGIC

9

Combinational Circuits –Analysis and Design Procedures –Circuits for Arithmetic Operations, Code Conversion –Decoders and Encoders –Multiplexers and Demultiplexers –Introduction to HDL –HDL Models of Combinational circuits.

UNIT III

SYNCHRONOUS SEQUENTIAL LOGIC

9

Sequential Circuits –Latches and Flip Flops –Analysis and Design Procedures –State Reduction and State Assignment –Shift Registers –Counters –HDL for Sequential Logic Circuits.

UNIT IV

ASYNCHRONOUS SEQUENTIAL LOGIC

O

Analysis and Design of Asynchronous Sequential Circuits -Reduction of State and Flow Tables - Race-free State Assignment -Hazards.

UNIT V

MEMORY AND PROGRAMMABLE LOGIC

(

RAM and ROM –Memory Decoding –Error Detection and Correction –Programmable Logic Array Programmable Array Logic –Sequential Programmable Devices –Application Specific Integrated Circuits.

TOTAL: 45 PERIODS

O. Jan 18/11/16

SIGNATURE OF STAFF INCHARGE

HOD/ECE

Mrs. D. Vennila







DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COURSE PLAN (THEORY)

Sub. Code Sub.Name

: CS 6201

Branch / Year / Sem : B.E CSE / I / II

: Digital Principles and System Design Batch

: 2016-2020

Staff Name

: Mrs. D.Vennila

Academic Year

: 2016-17 (EVEN)

COURSE OBJECTIVE

The student should be made to:

- Learn the various number systems.
- Learn Boolean Algebra
- Understand the various logic gates.
- Be familiar with various combinational circuits.
- Be familiar with designing synchronous and asynchronous sequential circuits.
- Be exposed to designing using PLD

TEXT BOOKS

T1: Morris Mano M. and Michael D. Ciletti, "Digital Design", IV Edition, Pearson Education, 2008.

REFERENCE BOOKS

- R1: John F. Wakerly, "Digital Design Principles and Practices", Fourth Edition, Pearson Education, 2007.
- R2: Charles H. Roth Jr, "Fundamentals of Logic Design", Fifth Edition Jaico Publishing House,
- R3: Donald D. Givone, "Digital Principles and Design", Tata Mcgraw Hill, 2003.

WEB RESOURCES

- W1. www.cse.yorku.ca/~mack/1011/01.NumberSystems.ppt (Topic. No: 1)
- W2. http://www.slideshare.net/jayanshugundaniya9/digital-electronics-multiplexersdemultiplexers (Topic.No:15)
- W3. nptel.ac.in/video.php?subjectId=117106086 (Topic.No:19)
- W4. http://freevideolectures.com/Course/2310/Digital-Circuits-and-Systems/24 (Topic.No:20)
- W5. onlinevideolecture.com/index.php?course_id=366&lecture_no=20(Topic.No:24)
- W6. www.cs.uwec.edu/~ernstdj/courses/cs278/.../cs278_implementation.ppt (Topic.No:31, 32)
- W7. www.comp.nus.edu.sg/~cs1104/oldlect/cs1104-13.ppt (Topic.No:35,36)
- W8. https://pg024ec.files.wordpress.com/2013/09/02_fpga-based-system-design1.ppt (Topic.No:38)

Topic No UNIT I	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	B00I	EAN ALGEB	RA AND L	OGIC GATES		(9)
1.	Review of number systems	T1 W1	3-8	PPT	1	1
2.	Arithmetic operations	T1	14-17	BB	1	2
3.	Binary Codes	T1	17-24	BB	1	3
4.	Boolean Algebra and Theorems	T1 R2	34-41 37-52	ВВ	1	4
5.	Boolean functions	T1	42-45	BB	1	5
6.	Simplification of Boolean functions using Karnaugh map	T1	46-53 67-86 134-151	ВВ	1	6
7.	Tabulation methods (or) Quine McClusky Method.	R2 R3	167-183 166-173	ВВ	1	7
8.	Logic gates	T1	55-60	ВВ	1	8
9.	NAND and NOR Implementations.	T1	87-98	PPT	1	9

At the end of unit, students should be able to

- Use various number conversions and arithmetic operations.
- Demonstrate the Logic gates using NAND NOR implementation.
- Realize Quine Mc Cluskey method of minimization
- Identify the minimimum boolean expressions using Karnaugh map.

JNIT I	l	COMBI	NATIONAL LO	OGIC		(9)
10.	Combinational Circuits - Analysis Procedures.	T1	135-138	BB	1	10
11.	Combinational Circuits - Design Procedures.	T1	139-143	BB	1	11
12.	Circuits for Arithmetic Operations	T1	143-159	ВВ	1	12
13.	Code Conversion	R1	140-148	BB	2	14
14.	Decoders and Encoders	T1	162-167	BB	1	15
15.	Multiplexers and Demultiplexers	T1 W2	168-173	PPT	1	16
16.	Introduction to HDL	T1	174-175	ВВ	1	17
17.	HDL Models of Combinational circuits.	T1	175-188	ВВ	1	18

LEARNING OUTCOME

- State the working of combinational circuits such as adder, subtractor etc.,
- Gain knowledge on multiplexer demultiplexer
- Explain the conversions behind code converters
- Develop VHDL coding for combinational circuits.

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	No. of periods
UNIT I		NCHRONOL	IS SEQUEN	TIAL LOGIC	-	(9) 20
18.	Sequential Circuits	T1	197-198	ВВ	2	
19.	Latches and Flip Flops	T1 R2	199-209 331-351	NPTEL	1	21
20.	Sequential Circuits Analysis Procedures	W3 T1 W4	210-220	PPT	1	22
21.	Sequential Circuits Design Procedures	T1	238-247	ВВ	1	23
22.	State Reduction and State Assignment	Tì	233-246	BB	1	24
23.	Shift Registers	T1	253-267	ВВ	1	25
24.	Counters	T1 R2	268-292 389-395	NPTEL	1	26
25.	HDL for Sequential Logic Circuits.	W5 T1	221-232	ВВ	1	27

At the end of unit, students should be able to

- Design sequential circuits using various flip flops.
- Describe and compare the shift registers.
- Analyze the functioning of synchronous Mod counters.
- Compare combinational and sequential circuits.

UNIT IV ASYNCHRONOUS SEQUENTIAL LOGIC (9)								
26.	Analysis of Asynchronous Sequential Circuits	T1 R3	435-450 371-381	PPT	2	29		
27.	Design of Asynchronous Sequential Circuits	T1	451-456	PPT	2	31		
28.	Reduction of State and Flow Tables	Т1	457-464	ВВ	2	33		
29.	Race-free State Assignment	T1 R3	464-468 468-477	ВВ	2	36		
30.		T1	469-474	BB	1	36		

LEARNING OUTCOME

- Design the fundamental mode and pulse mode circuits.
- Compare synchronous and asynchronous sequential circuits.
- Understand the concept of hazard free switching circuits.
- Write the VERILOG coding for combinational circuits and sequential circuits

JNIT V	y MEM	MEMORY AND PROGRAMMABLE LOGIC				(9)
31.	RAM Organization	T1 W6	308-313	PPT	1	37
32.	ROM Organization	T1 W6	322-327	PPT	1	38

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours	Cumulative No. of
UNIT I	II				Required	periods
18.	Sequenti I si	NCHRONOL	IS SEQUEN	TIAL LOGIC		(9)
	Sequential Circuits	T1	197-198	BB	2	20
19.	Latches and Flip Flops	T1 R2	199-209 331-351	NPTEL	1	21
20.	Sequential Circuits	W3	331-331			
21	Analysis Procedures	T1 W4	210-220	PPT	1	22
21.	Sequential Circuits Design Procedures	T1	238-247	BB	1	23
22.	State Reduction and State Assignment	T1	233-246	BB	1	24
23.	Shift Registers	T1	253-267	BB	1	25
24.	Counters	T1 R2	268-292 389-395	NPTEL	1	26
25.	HDL for Sequential Logic Circuits.	W5 T1	221-232	ВВ	1	27

At the end of unit, students should be able to

- Design sequential circuits using various flip flops.
- Describe and compare the shift registers.
- Analyze the functioning of synchronous Mod counters.
- Compare combinational and sequential circuits.

UNIT I	V AS	SYNCHRON	OUS SEQUE	NTIAL LOGIC	· 1	(9)
26.	Analysis of Asynchronous	T1	435-450	PPT	2	29
1	Sequential Circuits	R3	371-381	1 (8)		
27.	Design of Asynchronous Sequential Circuits	T1	451-456	PPT	2	31
28.	Reduction of State and Flow Tables	Т1	457-464	BB	2	33
29.	Race-free State Assignment	T1 R3	464-468 468-477	BB	2	36
30.	Hazards.	T1	469-474	ВВ	1	36

LEARNING OUTCOME

- Design the fundamental mode and pulse mode circuits.
- Compare synchronous and asynchronous sequential circuits.
- Understand the concept of hazard free switching circuits.
- Write the VERILOG coding for combinational circuits and sequential circuits

UNIT V	MEM	ORY AND P	ROGRAMMAB	LE LOGIC		(9)
	RAM Organization	T1 W6	308-313	PPT	1	37
32.	ROM Organization	T1 W6	322-327	PPT	1	38

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods 39
33.	Memory Decoding	T1	314-318	BB	1	
34.	Error Detection and Correction	T1	319-322	ВВ	1	40
35.	Programmable Logic Array	T1 W7	328-332	BB	1	42
36.	Programmable Array Logic	T1 W7	332-335	BB	1	
37.		T1	336-350	ВВ	2	44
38.	Application Specific Integrated Circuits.	R1 W8	440-445	PPT	1	45

At the end of unit, students should be able to

- Analyze and compare the functioning of memories.
- Explain the concept of memory decoding.
- Outline knowledge on Programmable Logic devices.
- Describe the developments of Application specific integrated circuits (ASIC)

COURSE OUTCOME

At the end of the course, the students will be able to

- Perform arithmetic operations in any number system.
- Simplify the Boolean expression using K-Map and Tabulation techniques.
- Use boolean simplification techniques to design a combinational hardware circuit.
- Design and Analysis of a given digital circuit combinational and sequential.
- Design using PLD.

CONTENT BEYOND THE SYLLABUS

1. Study of Field Programmable Gate Array system.

INTERNAL ASSESSMENT DETAILS

ASST. NO.	I	II	III	MODEL
Topic Nos.	1-13	14-25	26-38	1-38
Date	1			

ASSIGNMENT DETAILS

ASSIGNMENT	I	II	III
Topic Nos. for reference	1-13	14-25	26-38
Deadline			

B1 - (Roll.no:01 to 14) - (Theory Assignments)

B2 - (Roll.no:15 to 28) - (Theory Assignments)
B3 - (Roll.no:29 to 42) - (Assignment-I & II -Theory Assignments & Assignment -III-APH)

BATCH	ASSIGNMENT I	ASSIGNMENT II	ASSIGNMENT III
		scriptive Questions	
B1	 (i) Minimize the following logic function using K-map and realize using NAND and NOR gates.F(A,B, C, D) = ∑ m (1, 3, 5, 8, 9, 11, 15) + d(2,13). (ii) Using Quine - Mc Cluskey method simplify the given Boolean function. F(A,B,C,D)=∑m(0,2,3,5,7, 11,13,14). 	1.(i)Implement the following function using suitable multiplexer: F(A,B,C,D)=∑m (1,3,4,11,12,13,14,15) (ii) Implement the following function using 8 : 1 multiplexer. F(A,B,C,D)=A'BD' + ACD + B'CD + A'C'D. (iii) Write the VHDL coding for a Mux & Demux.	1.(i) Explain the steps for the design of asynchronous sequential circuits with an example. (ii) Explain in detail about the types of hazards in digital circuits.
B2	 2. (i) Simplify the following Boolean function using Quine-McClusky method F = (A, B, C, D, E, F) = Σm (0, 5, 7, 8,9, 12, 13, 23, 24, 25, 28, 29, 37, 40, 42, 44, 46, 55, 56, 57, 60, 61). (ii) Simplify the Boolean function using SOP and POS: F(w,x,y,z) = Σm(0,1,2,5,8,9,10) Implement using gates. 	 2.(i) Implement the following Boolean function using multiplexers: F(A,B,C,D)=∑m(0,1,3,4,8,9, 15). (ii) Design a 3 bit synchronous counter using RS flip-flops. (ii) Design a synchronous MOD-6 counter using any Flip flop. 	 2. (i) Discuss in detail about the races and cycles. (ii) Implement the following function using PLA: A(x,y,z)=Σm(1,2,4,6); B(x,y,z) = Σm(0,1,6,7) C(x,y,z)=Σm(2,6)
В3	3. (i) Explain the operation of half Adder, full adder, half subtractor & full subtractor. (ii) Design a code converter that converts a binary code to GRAY code.	3. (i) Design a MOD-10 / decade synchronous counter using JK flip-flop. Write excitation table and state table. (ii) Design a synchronous counter which counts in the sequence 000, 001, 010, 011, 100, 101, 110, 111,000 using D flip-flop.	3.(i) Write explanatory notes on RAM organization. (ii) Design a BCD to Excess 3 code converter and implement using suitable PLA. (iii) Explain in detail about hazards. (APH)

O. Ventro Prepared by Mrs.D.Vennila

Approved by PRINCIPAL

18/11/16 Verified by HOD/ECE







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SUBJECT: DIGITAL ELECTRONICS

(version:2)

SEMESTER: III

PREPARED BY

Mr. R.THANDAYUTHAPANI / ECE

Mrs. D. VENNILA / ECE

EC6302

DIGITAL ELECTRONICS

L T P C 3 0 0 3

UNIT I MINIMIZATION TECHNIQUES AND LOGIC GATES

9

Minimization Techniques: Boolean postulates and laws – De-Morgan's Theorem - Principle of Duality - Boolean expression - Minimization of Boolean expressions — Minterm – Maxterm - Sum of Products (SOP) – Product of Sums (POS) – Karnaugh map Minimization – Don't care conditions – Quine - Mc Cluskey method of minimization. Logic Gates: AND, OR, NOT, NAND, NOR, Exclusive—OR and Exclusive—NOR Implementations of Logic Functions using gates, NAND—NOR implementations – Multi level gate implementations - Multi output gate implementations. TTL and CMOS Logic and their characteristics – Tristate gates

UNIT II COMBINATIONAL CIRCUITS

9

Design procedure – Half adder – Full Adder – Half subtractor – Full subtractor – Parallel binary adder, parallel binary Subtractor – Fast Adder - Carry Look Ahead adder – Serial Adder/Subtractor - BCD adder – Binary Multiplier – Binary Divider - Multiplexer/ Demultiplexer – decoder - parity checker – parity generators – code converters - Magnitude Comparator.

UNIT III SEQUENTIAL CIRCUITS

9

Latches, Flip-flops - SR, JK, D, T, and Master-Slave - Characteristic table and equation -Application table - Edge triggering - Level Triggering - Realization of one flip flop using other flip flops - serial adder/subtractor- Asynchronous Ripple or serial counter - Asynchronous Up/Down counter - Synchronous counters - Synchronous Up/Down counters - Programmable counters - Design of Synchronous counters: state diagram- State table -State minimization -State assignment - Excitation table and maps-Circuit implementation - Modulo-n counter, Registers - shift registers - Universal shift registers - Shift register counters - Ring counter - Shift counters - Sequence generators.

UNIT IV MEMORY DEVICES

9

Classification of memories - ROM - ROM organization - PROM - EPROM - EPROM - EAPROM, RAM - RAM organization - Write operation - Read operation - Memory cycle - Timing wave forms -

Memory decoding - memory expansion - Static RAM Cell- Bipolar RAM cell - MOSFET RAM cell - Dynamic RAM cell - Programmable Logic Devices - Programmable Logic Array (PLA) - Programmable Array Logic (PAL) - Field Programmable Gate Arrays (FPGA) - Implementation of combinational logic circuits using ROM, PLA, PAL

UNIT V SYNCHRONOUS AND ASYNCHRONOUS SEQUENTIAL CIRCUITS

9

Synchronous Sequential Circuits: General Model – Classification – Design – Use of Algorithmic State Machine – Analysis of Synchronous Sequential Circuits, Asynchronous Sequential Circuits: Design of fundamental mode and pulse mode circuits – Incompletely specified State Machines – Problems in Asynchronous Circuits – Design of Hazard Free Switching circuits. Design of Combinational and Sequential circuits using VERILOG.

TOTAL: 45 PERIODS

2. 0.\ [outline]

SIGNATURE OF STAFF INCHARGE

- 1. Mr.R.Thandayuthapani
- 2. Mrs. D. Vennila

HDD ABOR 16









DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING **COURSE PLAN**

Sub. Code

: EC6302

Sub.Name Staff Name

: Digital Electronics

Mrs. D.Vennila

: Mr. R.Thandayuthapani

Batch

Branch / Year / Sem : B.E ECE / II / III

Academic Year

: 2015-2019 : 2016-17 (ODD)

COURSE OBJECTIVE

1. To introduce basic postulates of Boolean algebra and shows the correlation between Boolean expressions.

2. To introduce the methods for simplifying Boolean expressions.

3. To outline the formal procedures for the analysis and design of combinational circuits and sequential circuits.

To introduce the concept of memories and programmable logic devices.

5. To illustrate the concept of synchronous and asynchronous sequential circuits.

TEXT BOOKS

T1: M. Morris Mano, "Digital Design", 4th Edition, Prentice Hall of India Pvt. Ltd., 2008 / Pearson Education (Singapore) Pvt. Ltd., New Delhi, 2003..

REFERENCE BOOKS

, R1: J.S Katre and G.C.Patil, "Digital electronics", Macmillan Publishers India Ltd, 2011.

R2: John.M Yarbrough, "Digital Logic Applications and Design", Thomson Learning, 2006.

R3: Charles H.Roth. "Fundamentals of Logic Design", 6th Edition, Thomson Learning, 2013.

WEB RESOURCES

- W1. http://www.ee.surrey.ac.uk/Projects/Labview/minimisation/tabular.html (Topic. No: 05)
- W2. www.circuitstoday.com/half-adder-and-full-adder (Topic.No:10)
- W3. www.cs.uwec.edu/~ernstdj/courses/cs278/.../cs278_implementation.ppt (Topic.No:26, 27)
- W4. www.comp.nus.edu.sg/~cs1104/oldlect/cs1104-13.ppt (Topic.No:31)
- W5. www-inst.eecs.berkeley.edu/~cs150/sp06/Lectures/FPGA_Lec.ppt (Topic.No:32)
- W6. nptel.ac.in/video.php?subjectId=117106086 (Topic.No:19)
- W7. onlinevideolecture.com/index.php?course_id=366&lecture_no=20(Topic.No:23)
- W8. http://freevideolectures.com/Course/2310/Digital-Circuits-and-Systems/24 (Topic.No:35)

DE 3

KCE/ECE/QB/II YR/DE

Topic No	T : QP09 Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
			VIVOUES	AND LOGIC GA BB	TES	(9)
UNITI	MINIMIZ	LATION TEC	HNIQUES	BB	1	1
1.	Boolean postulates and laws, De-Morgan's Theorem, Principle of	R1 T1	2.1-2.13 33-40	DB.		
	Duality		98-100	BB	1	2
2.	Boolean expression, Minimization of Boolean	T1	98-100			3
3.	expressions Minterm, Maxterm, Sum of Products (SOP),	T1	46-50	ВВ	1	
	Product of Sums (POS)	m4	67-80	BB	1	4
4.	Karnaugh map Minimization, Don't care conditions.	Т1				5
5.	Quine - Mc Cluskey	R1	3.82-	BB	1	3
0.	method of minimization	W1	3.111			-
6.	AND, OR, NOT, NAND, NOR, Exclusive-OR and Exclusive-NOR Implementations of Logic Functions using gate	R1	2.32- 2.65 3.62- 3.67	ВВ	1	6
7.	NAND-NOR implementations.	R1	3.79- 3.82	ВВ	1	7
8.	Multi level gate & Multi output gate implementations.	R1	3.111- 3.116	ВВ	1	8
9.	TTL and CMOS Logic and their characteristics, Tristate gates	T1 R1	496-518 4.1-4.67	PPT	1	9

LEARNING OUTCOME

- Describe TTL and CMOS Logic characteristics.
- Realize Quine Mc Cluskey method of minimization.
- Identify the Minimimum Boolean expressions using Karnaugh map.

UNIT I	1	COMBI	NATIONAL CIT	RCUITS		(9)
10.	Design procedure - Half adder, Full Adder	T1 W2	143-146	ВВ	1	10
11.	Half subtractor, Full subtractor	T1	150-152	BB	1	11
	Parallel binary adder	R1	5.21- 5.23	BB	1	12
13.	Parallel binary Subtractor	R1	5.28- 5.30	BB	1	13
14.	Fast Adder, Carry Look Ahead adder, Serial Adder/Subtractor	R1	5.23- 5.28	PPT	1	14

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
15.	BCD adder, Binary Multiplier & Divider	R1	5.30- 5.35	BB	1	15
16.	Multiple	T1	131-132	10	Lagran II	
10.	Multiplexer& Demultiplexer, Decoder, Encoder	R1 R3	5.40- 5.119 223-227	ВВ	1	16
	Parity checker, Parity generators	R1	5.119- 5.126	ВВ	1	17
	Code Converters, Magnitude Comparator	T1	140-142	BB	1	18

At the end of unit, students should be able to

- Outline knowledge on Multiplexer& Demultiplexer
- Explain the conversions behind Code converters

State the working of Parity checker & Parit

OHILL		SFOUR!	NTIAL CIRC	itors		(0)
19.	Latches, Flip-flops - SR, JK, D, T, and Master- Slave, Characteristic table and equation,	R3 W6	269-284	BB NPTEL (VIDEO)	2	20
20.	Application table Edge triggering – Level Triggering	T1	203-206	PPT	1	21
21.	flop using other flip flops	R1	6.43- 6.53	BB	1	22
22.	serial adder/subtractor, Asynchronous Ripple or serial counter, Asynchronous Up/Down counter	R1	7.1-7.14, 7.25- 7.29	ВВ	2	. 24
23.	Synchronous counters, Synchronous Up/Down counters, Programmable counters	R1 W7	7.29- 7.80	BB NPTEL (VIDEO)	1	25
24.	Design of Synchronous counters: state diagram-State table, State minimization, State assignment, Excitation table and maps	R1	6.64- 6.85	BB	1	26
25.		R1	7.14- 7.25	ВВ	1	27
	counters, Sequence generators.	4.4.5.5		a tar e de la composition della composition dell		* * * * * * * * * * * * * * * * * * *

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	No. of periods
					Required	T Post

At the end of unit, students should be able to

- Design sequential circuits using various flip flops.
- Describe and Compare the shift registers.

Analyze & Compare the functioning of Synchronous counters with Asynchronous counters

•	Analyze & Compare the fund	ctioning of	Synchronou	S Counters with	noy nem one	(9)
UNIT I		MEM	ORY DEVICE			
26.	Classification of memories, ROM, ROM organization, PROM, EPROM, EEPROM, EAPROM	T1 R2 W3	270-276 485-491	PPT	1	28
27.	RAM, RAM organization, Write operation, Read operation	T1 W3	255-267	PPT	1	29
28.	Memory cycle, Timing wave forms, Memory decoding, memory expansion	T1		ВВ	1	30
29.		R1	9.29- 9.35	ВВ	2	32
30.		T1 R2	276-280 495-498	ВВ	1	33
31.		T1 R1	280-283 10.34- 10.56	ВВ	2	35
32.		R2 W4	534-543	ВВ	1	36

LEARNING OUTCOME

- Analyze & Compare the functioning of memories
- Outline knowledge on Programmable Logic devices.
- Describe the developments of Field Programmable Gate Arrays (FPGA)

UNIT V	SYNCHRONOUS A	AND ASYNCI	HRONOUS	SEQUENTIAL C	IRCUITS	(9)
	General Model, Classification	R1	11.1- 11.1	PPT	1	37
34.	Design, Use of Algorithmic State Machine	Т1	299-310	ВВ	1	38
35.	Analysis of Synchronous Sequential Circuits	R1 W8	11.11- 11.34	ВВ	. 1	39
36.	Design of fundamental mode and pulse mode circuits	R1	12.1- 12.44	ВВ	1	40

Topic No.	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
37.	Incompletely specified State Machines, Problems in	T1	342-379	ВВ	2	
38.	Asynchronous Circuits Design of Hazard Free Switching circuits	T1	342-379	ВВ	1	43
39.	Design of Combinational and Sequential circuits using VERILOG.	R1	13.1- 13.22	BB	2	45

At the end of unit, students should be able to

- Write the VERILOG coding for Combinational circuits and Sequential circuits
- Design the fundamental mode and pulse mode circuits
- Describe the technology behind Hazard Free Switching circuits

COURSE OUTCOME

At the end of the course, the students will be able to

- Analyze the working of various memory devices like RAM, ROM, EPROM and EEPROM.
- Outline knowledge on Digital integrated circuits
- Describe and Compare various counters
- State and Explain the design of sequential circuits

CONTENT BEYOND THE SYLLABUS

1. Study of Advanced Field Programmable Gate Array system.

INTERNAL ASSESSMENT DETAILS

ASST. NO.	I	II	MODEL
Topic Nos.	1-14	15-25	1-39
Date			

ASSIGNMENT DETAILS

ASSIGNMENT	I	II	III
Topic Nos. for reference	1-14	1-39	1-39
Deadline	•	•	• .

B1 - (Roll.no:01 to 15) - (Theory Assignments)

B2 - (Roll.no:16 to 30) - (Assignment-I &III - Theory Assignments &Assignment -II-APH)

B3 - (Roll.no:31 to 46) - (Theory Assignments)

BATCH	ASSIGNMENT I	ASSIGNMENT II	ASSIGNMENT III
	Des	scriptive Questions	The second secon
B1	1. (i) Minimize the following logic function using K-maps and realize	1.(i)Implement the following function using suitable multiplexer.	1. (i) Explain the read and write cycle timing parameters of
	using NAND and NOR gates.F(A,B, C, D) = \sum m (1, 3, 5, 8, 9, 11, 15) + d(2,13). (ii) Using quine mcclusky method simplify the given function.F(A,B,C,D)= \sum m(0, 2,3,5,7,11,13,14).	 F(A,B,C,D)=∑ (1,3,4,11,12,13,14,15) (ii)Draw the block schematic of Magnitude Comparator and explain its operations. (iii)Design a 3:8 decoder 	RAM cell with the help of timing diagram. (ii)Draw the static & Dynamic RAM cell and explain its
B2	2. (i) Explain in detail about Schottky TTL. (ii) Explain the operation of a CMOS inverter. Also explain its characteristics.	using basic gates. 2.(i) Design a 3 bit synchronous counter using various flip-flops. (ii) Explain the operation of synchronous MOD-6 counterusing Flip flop. (APH)	operation. 2. (i) Design a BCD to Excess 3 Convertor using PLA. (ii) Describe about the implementation of Boolean function using PAL.
В3	3. (i) Explain the operation of Full Adder & Full subtractor. (ii) Describe about carry look ahead adder with necessary diagrams. (iii) Explain the block diagram of a 4-bit parallel adder / Subtractor	 3. (i) Explain in detail about the operation of a 4 bit binary ripple counter. (ii) Design a synchronous counter for 4->6->7->3->1->4 avoid lockout condition, use JK type design. (iii) Explain in detail about the minimization procedure of state diagram. 	3.(i) Write Explanatory notes on Algorithmic State Machines. (ii) Design a T flip flop using logic gates and Derive the state table, state diagram, primitive flow table, transition table and Merger graph. Draw the logic circuit (iii) Explain in detail about hazards?

2. Q. Vento Prepared by

Mr.R.Thandayuthapani Mrs.D.Vennila J'b 281X

Approved by **PRINCIPAL**

HOD/ECE & S 1/2



PROMOTION OF ICT (VIRTUAL LAB SESSIONS, NPTEL SESSIONS FOR COURSES)







INTERNAL QUALITY ASSURANCE CELL

6.5.2 VIRTUAL LAB SESSION EXECUTION REPORT



VIRTUAL LAB SESSION EXECUTION SUMMARY

S.No	Name of the	2020-	2019-	2018-	2017-
	Department	2021	2020	2019	2018
		No.of	No.of	No.of	No.of
		Courses	Courses	Courses	Courses
1.	CIVIL	07	05	05	02
2.	CSE	02	04	03	02
3.	ECE	04	04	04	02
4.	EEE	01	02	00	01
5.	MECH	02	02	00	01
	TOTAL	16	17	12	08

TABLE OF CONTENTS

S NO	DESCRIPTION	Page No
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2	Academic Year : 2019-2020	24-42
3	Academic Year : 2018-2019	43-57
4	Academic Year : 2017-2018	58-68

ACADEMIC YEAR 2020-2021







DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2020-2021 (ODD SEMESTER) VIRTUAL LAB SESSIONS

25.01.2021

Background & Objective:

Department of Civil Engineering has conducted Virtual lab sessions for II year, III year & IV Year civil students during the academic year 2020-21 (Odd Semester). Laboratories are the important environment for students learning, where students get hands on training. During the pandemic period, Virtual labs play a major role in providing remote-access to the laboratories for the students. This would help in learning basic and advanced concepts through remote experimentation even during the pandemic situation as well as the teaching learning process can be excelled.

Virtual Lab Sessions:

For II Year civil students virtual lab sessions were conducted on Construction Materials laboratory and Surveying Laboratory. It presents the laboratory aspects of this subject, in an imaginary way. Students have an opportunity to view before and after doing the experiment to gauge whether his or her understanding has increased, and to make the student more comfortable while doing experiments.

For III Year civil students virtual lab sessions were conducted on Soil Mechanics Laboratory and Water & Waste Water Analysis Laboratory. Soil properties are required to decide the building foundation. It is critical to quantify the various properties of water in order to predict its behaviour under different conditions for the safe design of treatment plants.

For IV Year civil students, in curriculum we have only project work. But virtual lab sessions were also conducted for them in order to enhance their laboratory skills. Virtual lab sessions were conducted on Strength of Materials Laboratory, Structural Dynamics laboratory and Transportation Engineering Laboratory.

S.NO	YEAR/SEM	LAB NAME	STAFF INCHARGE	
1	II/III	Surveying Laboratory	Mr.K.Arun, AP/Civil	
2	II/III	Construction Material Laboratory	Mr.R.Sundharam, AP/Civil	
3	III/V	Waste Water Engineering laboratory	Ms.V.Ishwarya, AP/Civil	
4	III/V	Soil Mechanics laboratory	Ms.M.Priya, AP/Civil	
5	IV/VII	Structural Dynamics Lab	Mr.S.R.Elwin Guru Chanth, AP/Civil	
6	IV/VII	Strength of Material lab	Ms.R.Revathi, HoD/Civil	
7	IV/VII	Transportation Engineering Lab	Ms.K.Jeyashankari, AP/Civil	

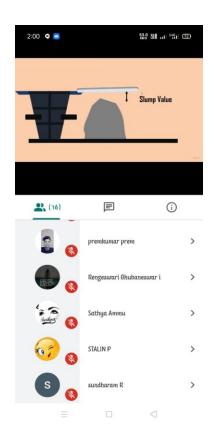
II Yr Virtual Lab Sessions

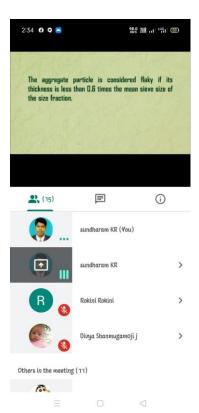


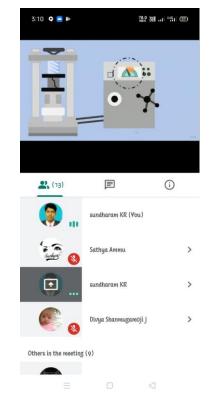




Surveying Laboratory by Mr.K.Arun, AP/Civil

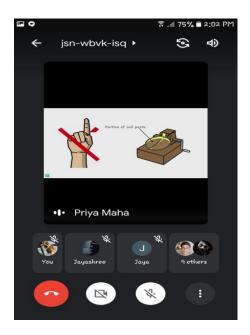






Construction Materials Laboratory by Mr.R.Sundharam, AP/Civil

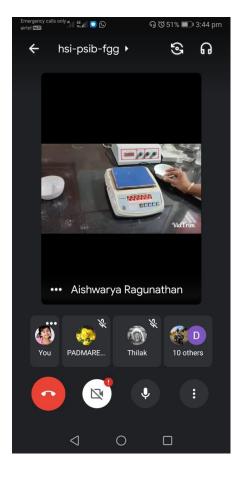
III Yr Virtual Lab Sessions





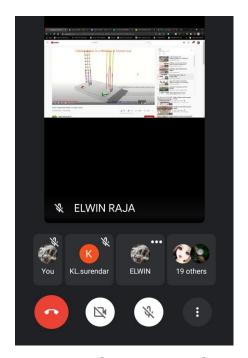
Soil Mechanics Laboratory by Ms.M.Priya, AP/Civil





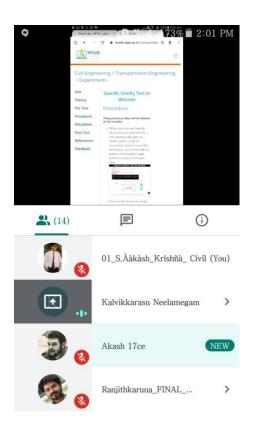
Water & Waste Water Analysis Laboratory by Ms.V.Ishwarya, AP/Civil

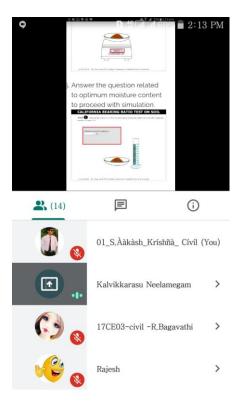
IV Yr Virtual Lab Sessions



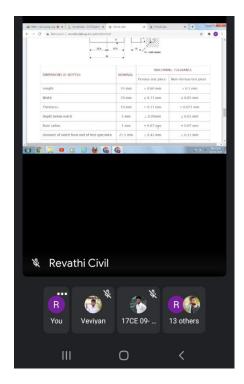


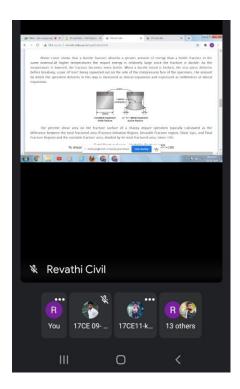
Structural Dynamics Laboratory by Mr.S.R.Elwin Guru Chanth, AP/Civil





Transportation Engineering Laboratory by Ms.K.Jeyashankari, AP/Civil





Strength of Materials Laboratory by Ms.R.Revathi, HoD/Civil

Outcome

- ❖ Virtual lab allows flexibility for the teacher who is not limited by using resources within a strict timeframe.
- ❖ Virtual Labs will be more effective and realistic because of providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment.
- ❖ The students can explore the experimental procedures prior to actually performing it in the laboratory, and are therefore being much more informed on what is to be done in the laboratory and what results to expect.
- ❖ The use of the virtual laboratory allows the students to exercise the same in numerous ways in the web which is not easily experimented in the traditional laboratory.
- ❖ Virtual lab showcase the content being taught, which will keep students interested, and provides a form of interaction that could not normally be easily conducted in the classroom.
- Students will easily understand the concepts and methods by virtually seeing the experiments instead of listening to lectures.
- ❖ Around 19 II year, 28-III year & 39-IV Year civil students were benefited using virtual lab sessions.



12.05.2021

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2020-21 (EVEN SEM) VIRTUAL LAB REPORT Inter process Communication

Objective

- To enthuse students to conduct experiments by arousing their curiosity.
- To help them in learning basic and advanced concepts through remote experimentation
- To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional webresources, video-lectures, animated demonstrations and self evaluation.

Background & Objective:

Department of CSE has conducted Virtual lab sessions for II year during the academic year 2020-21 (EVEN Semester). Laboratories are the important environment for students learning, where students get hands on training. During the pandemic period, Virtual labs play a major role in providing remote-access to the laboratories for the students.

Date: 12.05.21 for CSE (No. of participants: 45)

Session coverage:

- Processes-Process Concept,
- Process Scheduling,
- Inter process Communication

Photos





Virtual Lab Session on Inter process Communication for IV Year - 45 students were attended



11.01.2021

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2020-21 (ODD SEM) VIRTUAL LAB REPORT Sorting Techniques

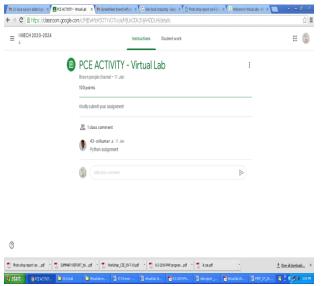
Background & Objective:

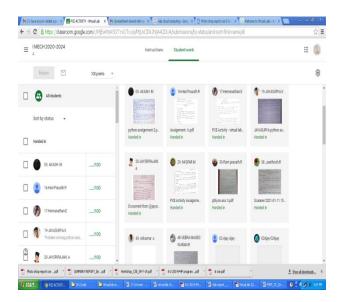
Department of CSE has conducted Virtual lab sessions for I year during the academic year 2020-21 (Odd Semester). Laboratories are the important environment for students learning, where students get hands on training. During the pandemic period, Virtual labs play a major role in providing remote-access to the laboratories for the students. This would help in learning basic and advanced concepts through remote experimentation even during the pandemic situation as well as the teaching learning process can be excelled.

Date: 31.08.19 for I Year MECH (No. of participants: 45)

Session coverage:

- Selection sort
- Insertion sort
- Merge sort, Histogram











DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2020-2021) EVEN SEM

REPORT ON VIRTUAL LAB SESSIONS





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2020-2021) EVEN SEMESTER

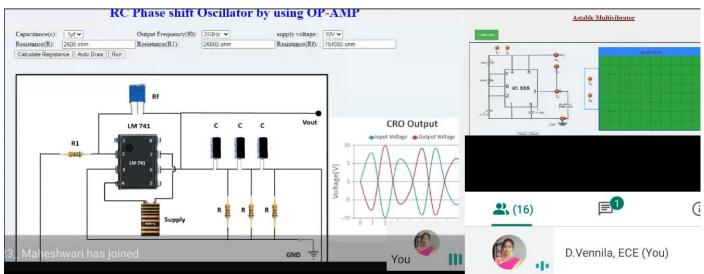
REPORT ON VIRTUAL LAB SESSION

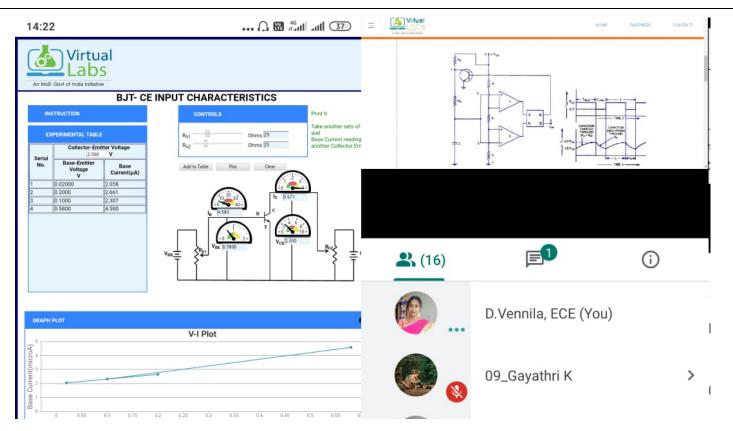
In KCE, department of Electronics and Communication Engineering, has organized a Virtual lab session for second and third year B.E-ECE students on 10-05-2021 (Monday) through Online mode.

The main objective of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for an electronic circuit's course. The primary purpose of the tool is to provide an environment that mimics some of the failure modes of a real lab, which aids the student in learning debugging techniques and to get familiarized with the usage of the tool for Electronic circuits applications.

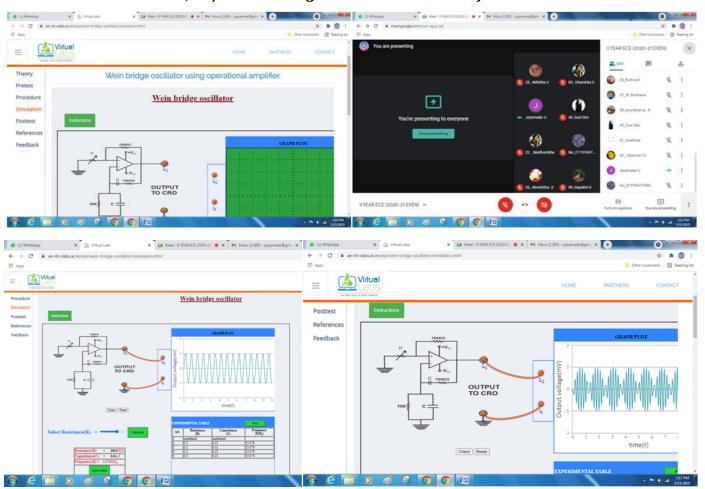
For second year students, the virtual lab session was conducted in the title of "Circuit design and simulation lab" on 10-05-21 Afternoon session. The topics covered under this title are RC phase shift oscillator, Wien bridge Oscillator, Hartley Oscillator, Colpitts Oscillator, Astable and Monostable multivibrators, Schmitt trigger circuit, Twin T Oscillator, Analysis of Power Amplifiers, Tuned collector Oscillator

Totally 40 students from II ECE have attended this lab session.





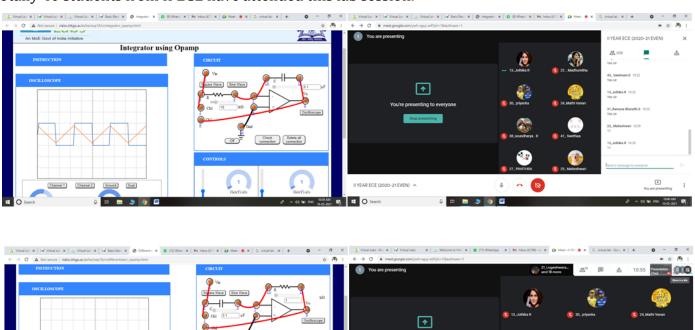
Mrs. D. Vennila, AP/ECE handling the virtual lab session for II ECE students



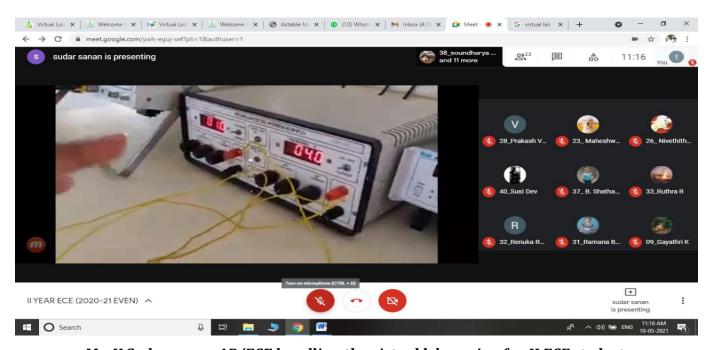
Mrs.U. Jeyamalar, AP/ECE handling the virtual lab session for II ECE students

For second year students, the virtual lab session was conducted in the title of "LIC lab" on 10-05-21 **Forenoon session.** The topics covered under this title are Inverting and Non inverting differential amplifiers, Integrator and Differentiator, Astable & Monostable Multivibrators using Op-amp, Frequency multiplier and Schmitt trigger circuit.

Totally 40 students from II ECE have attended this lab session.



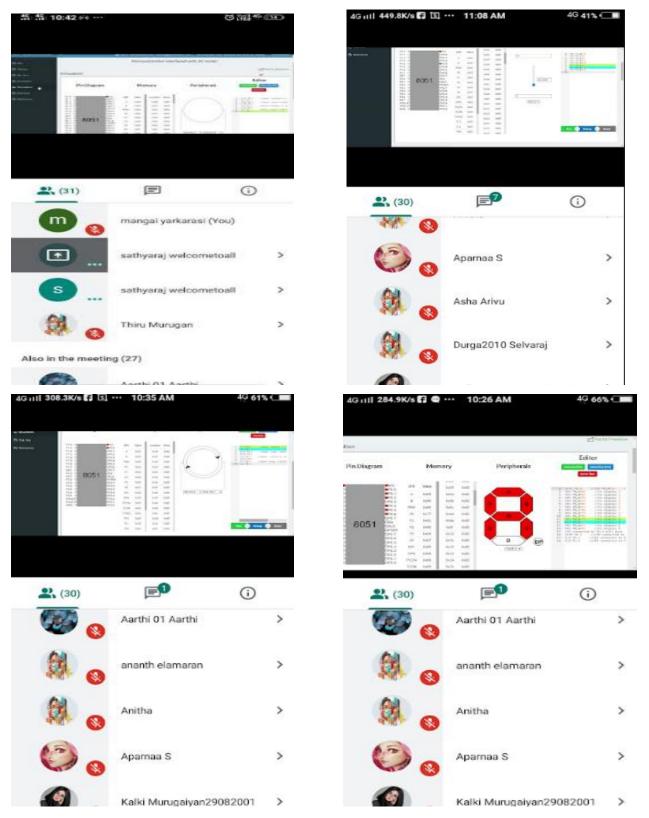
Mr. R.Thandayuthapani, AP/ECE handling the virtual lab session for II ECE students



Mr. K.Sudarsanan, AP/ECE handling the virtual lab session for II ECE students

For third year students, the virtual lab session was conducted in the title of "**Microprocessor and Microcontroller lab" on 10-05-21 Forenoon session**. The topics covered under this title are Basic Arithmetic and logical operations, Traffic Light Controller, Stepper motor control, Digital clock, Keyboard display, Printer status, Serial and Parallel Interface.

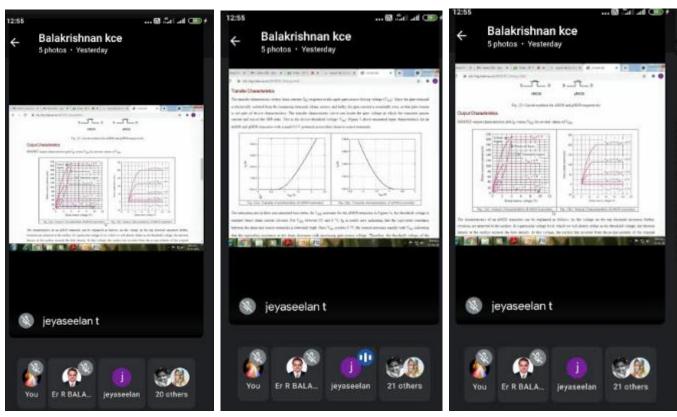
Totally 36 students from III ECE have attended this lab session.



Mr.R.Sathyaraj, AP/ECE handled the virtual lab session for III ECE students.

For third year students, the virtual lab session was conducted in the title of "**VLSI Design lab**" on **10-05-21 Afternoon session**. The topics covered under this title are Design of an Adder using HDL, Design of an Multiplier using HDL, Design of an Arithmetic Logic Unit, Finite state machine design using HDL, Universal Shift register Design using HDL, CMOS Inverter & Inverting Amplifier, CMOS Basic gates & Flip-flops and Synchronous counter using Flip-flops.

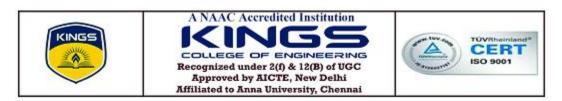
Totally 36 students from III ECE have attended this lab session.



Mr. T. Jeyaseelan, AP/ECE & Mr.R.Balakrishnan, AP/ECE handling the virtual lab session for III ECE students.



Mr.T. Jeyaseelan, AP/ECE handled the virtual lab session Phase-I on 09-03-21 for III year students. Totally 35 students from III ECE have attended this lab session and gained knowledge.



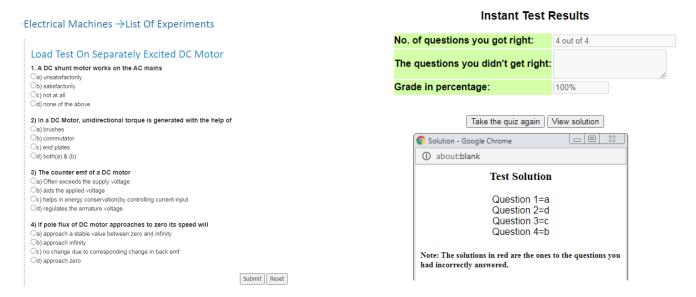
Department of Electrical & Electronics Engineering Academic year 2020-21 (ODD) Virtual Lab Report

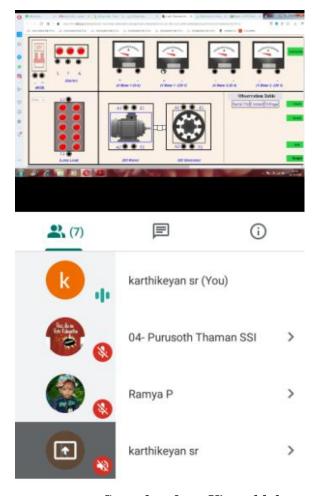
Objective

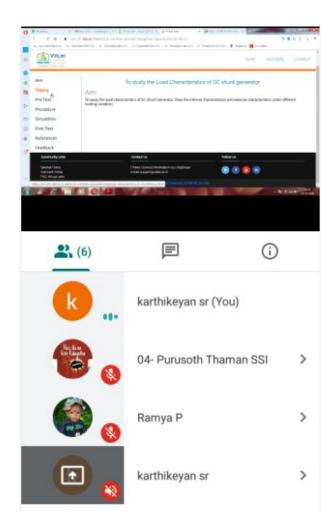
- 1. To provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.
- 2. To enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
- 3. To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self evaluation.
- 4. To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distances.

Electrical Machines Lab

In this lab we will perform load test and speed control on separately excited DC motor.







Snapshot from Virtual lab

Snapshot from Virtual lab class

Evaluation from Quiz

SNo	Name of the Student	Mark / 100
1	Bharanitharan.S	60
2	Krishna .M.E	100
3	Pandidevi.P	100
4	Purusothaman.R	80
5	Ragul.V	100
6	Regina.R	100
7	Yugeshwaran.B	60
8	SarathKumar.A	60

Date: 15.10.2020

Students: II EEE – 8 Members

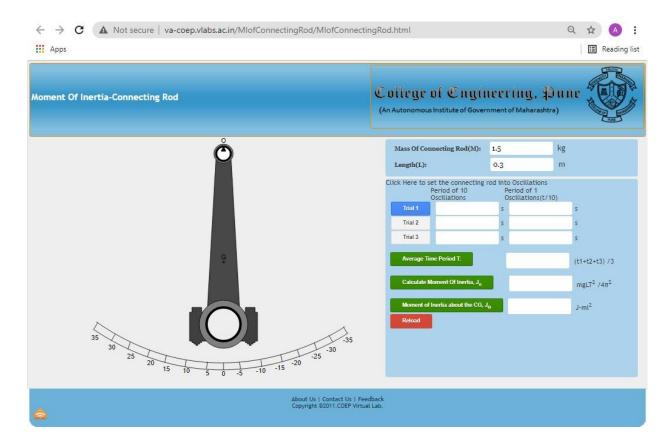


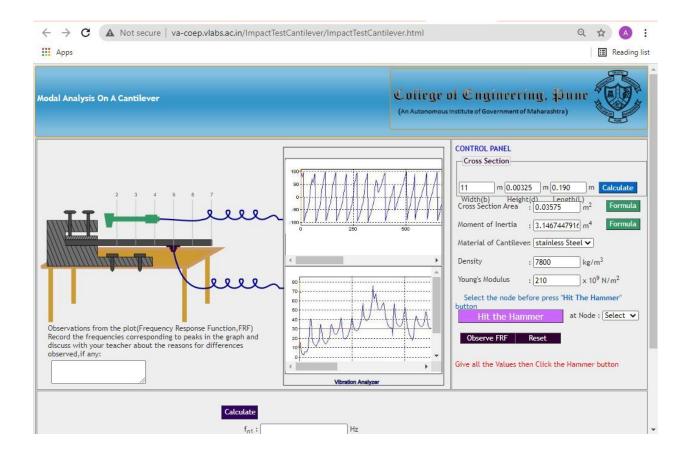
Department of Mechanical Engineering Academic year 2020-21 (EVEN)

Department of Mechanical Engineering has conducted Virtual lab sessions for I year students of EEE during the academic year 2020-21 even. The main objective of the Virtual laboratory is to provide remote-access to Labs in various disciplines of Engineering. In the Thematic Session, Mr.M.ASWIN, AP/MECH, explained the theme of the virtual lab sessions. This would help in learning basic and advanced concepts through remote experimentation.

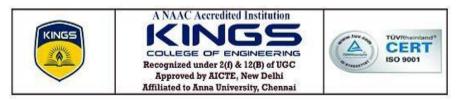
Virtual Lab Session:

For I Year EEE students virtual lab sessions were conducted on vibration and machining process by IIT, Kharagpur, on 24-4-2021





Snapshots of the session

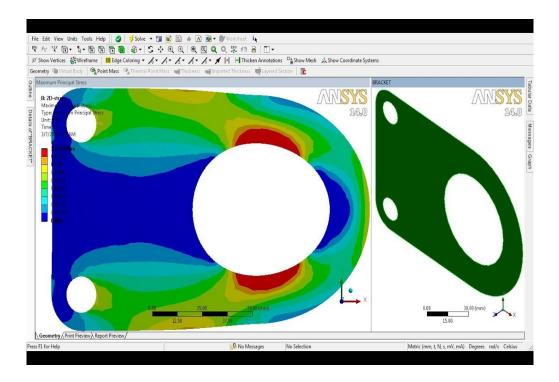


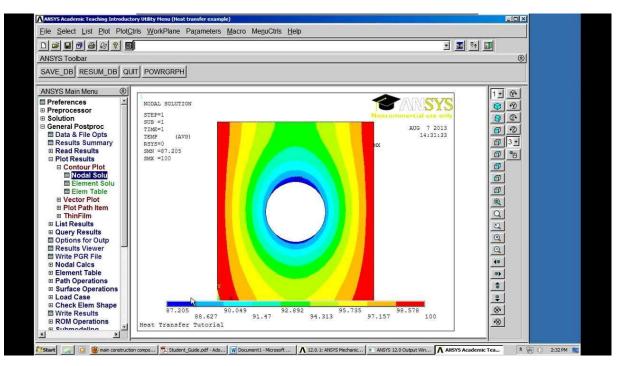
Department of Mechanical Engineering Academic year 2020-21 (Odd)

Department of Mechanical Engineering has conducted Virtual lab sessions for IV year students of Mechanical Engineering during the academic year 2020-21 Odd through Online mode (Google meet). The main objective of the Virtual laboratory is to provide remote-access to Labs in various disciplines of Engineering. In the Thematic Session, Mr.M.ASWIN, AP/MECH, explained the theme of the virtual lab sessions. This would help in learning basic and advanced concepts through remote experimentation.

Virtual Lab Session:

For IV Year Mech students virtual lab sessions were conducted on ANSYS Simulation by Mr.M.Aswin,Ap/Mech on 20-9-2021 through Google Meet online platform.





Snapshots of the session

ACADEMIC YEAR 2019-2020



DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2019-2020 (ODD SEMESTER) VIRTUAL LAB SESSIONS

22.08.2019

Background & Objective:

Department of Civil Engineering has conducted Virtual lab sessions for II year, III year & IV Year civil students during the academic year 2019-20 (Odd Semester). Laboratories are the important environment for students learning where students get hands on training. The main objective of the Virtual laboratory is to provide remote-access to Labs in various disciplines of Engineering. These Virtual Labs would cater to students at the undergraduate level, as well as to research scholars. In the Thematic Session, Mr.K.Arun, AP/Civil, explained the theme of the virtual lab sessions. This would help in learning basic and advanced concepts through remote experimentation.

Virtual Lab Sessions:

For IV Year civil students virtual lab sessions were conducted on Computer Aided design and Drafting laboratory. AUTOCAD is the important Civil Engineering software where you can give shape to your dream buildings. It is necessary for each and every Civil Engineer to draft their ideas and AUTOCAD plays a major role in drafting.

For III Year civil students virtual lab sessions were conducted on Soil Mechanics Laboratory and Water & Waste Water Analysis Laboratory. Soil properties are required to decide the building foundation. It is critical to quantify the various properties of water in order to predict its behaviour under different conditions for the safe design of treatment plants.

For II Year civil students virtual lab sessions were conducted on Construction Materials laboratory and Surveying Laboratory. It presents the laboratory aspects of this subject, in an imaginary way. Students have an opportunity to view before and after doing the experiment to gauge whether his or her understanding has increased, and to make the student more comfortable while doing experiments.

S No	YEAR / SEM	LAB NAME	STAFF INCHARGE
1	IV/VII	CE6711 – COMPUTER AIDED DESIGN AND DRAFTING LABORATORY	Mrs.T.Bhuvaneswari Mrs.M.Priya
2	III/V	CE8511 – SOIL MECHANICS LABORATORY	Mr.K.Ranjith
3	III/V	CE8512 – WATER & WASTE WATER ANALYSIS LABORATORY	Mrs.V.Ishwarya
4	II/III	CE8311 – CONSTRUCTION MATERIALS LABORATORY	Mr.R.Sundharam
5	II/III	CE8361 – SURVEYING LABORATORY	Mr.M.Mohamed Ilyas





Virtual lab sessions - Computer Aided Design and Drafting Laboratory



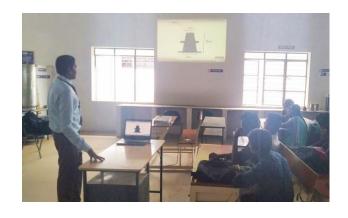


Virtual lab sessions - Soil Mechanics Laboratory





Virtual lab sessions - Water & Waste Water Analysis Laboratory





Virtual lab sessions - Construction Materials Laboratory





Virtual lab sessions - Surveying Laboratory

Outcome

- ❖ Virtual lab showcase the content being taught, which will keep students interested, and provides a form of interaction that could not normally be easily conducted in the classroom.
- ❖ Virtual lab allows flexibility for the teacher who is not limited by using resources within a strict timeframe. Virtual Labs will be more effective and realistic because of providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment.
- ❖ The students can explore the experimental procedures prior to actually performing it in the laboratory, and are therefore being much more informed on what is to be done in the laboratory and what results to expect.
- ❖ The use of the virtual laboratory allows the students to exercise the same in numerous ways in the web which is not easily experimented in the traditional laboratory.
- ❖ Students will easily understand the concepts and methods by virtually seeing the experiments instead of listening to lectures. For the 'touch and feel' part, the students can possibly visit an actual laboratory for a short duration.
- ❖ Around 25 II year, 35-III year & 50-IV Year civil students were benefited using virtual lab sessions.







12.03.2020

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019-20 (EVEN SEM) VIRTUAL LAB REPORT

COSMIC Full function points

Objective

- To enthuse students to conduct experiments by arousing their curiosity.
- To help them in learning basic and advanced concepts through remote experimentation
- To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional webresources, video-lectures, animated demonstrations and self evaluation.

Virtual Lab Sessions:

For IV Year CSE students virtual lab sessions were conducted on COSMIC Full Function Points.

It presents the laboratory aspects of this subject, in an imaginary way. Students have an opportunity to view before and after doing the Cocomo model whether his or her understanding has increased, and to make the student more comfortable while doing experiments.



Virtual Lab Session on Image Processing Lab for IV Year - 36 students were attended







11.03.2020

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019-20 (EVEN SEM) VIRTUAL LAB REPORT Image Processing Lab

Objective

- > To provide remote- access to labs in various disciplines of Science and Engineering
- To cater the students at UG level, PG level as well as to research scholars
- > To enable the students to learn at their own place and to arouse their curiosity
- ➤ To provide a complete learning management system that includes web resources, video lectures, animated demonstrations and self evaluation

Date: 11.03.2020 for II Year CSE (No. of participants: 45)

Session coverage:

Image Processing Lab

- Distance and Connectivity
- Image Arithmetic
- Affine Transformation
- Point Operations
- Image Histogram
- Fourier Transform
- Color Image Processing
- Morphological Operations
- Image Segmentation



Virtual Lab Session on Image Processing Lab for II Year - 45 students were attended







22.08.2019

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019-20 (ODD SEM)

VIRTUAL LAB REPORT Soft Computing Tools in Engineering Lab

Objective

- To provide remote- access to labs in various disciplines of Science and Engineering
- To cater the students at UG level, PG level as well as to research scholars
- To enable the students to learn at their own place and to arouse their curiosity
- > To provide a complete learning management system that includes web resources, video lectures, animated demonstrations and self evaluation

Date: 22.08.19 for II Year CSE (No. of participants: 45)

Session coverage:

Artificial Neural Networks

- Neural Networks and Perceptron
- Multilayer Perceptron
- Radial Basis Function
- Probabilistic Neural Networks

Evolutionary Algorithms (EA)

- Introduction to EA
- Binary and Real Coded genetic Algorithms
- Genetic Expression Programming



Virtual Lab Session on Soft Computing Tools in Engineering Lab for II Year - 45 students were attended







28.08.2019

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019-20 (ODD SEM)

VIRTUAL LAB REPORT Internet Firewalls for Trusted System, Roles of Firewalls

About Program

In KCE, department of CSE has organized a Virtual lab session for third year B.E-CSE students on 28.08.2019 at CSE lab. The main objective of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for the Internet firewalls for trusted system and role of firewalls. The Internet programming course involves a firewall is a device or group of devices that controls access between networks. It is a security gateway that controls access between the public Internet and an intranet and is a secure computer system placed between a trusted network and an un trusted Internet. Firewalls can be classified into packet filters, circuit-level gateways, and application-level gateways. The primary step in designing a secure firewall is obviously to prevent the firewall devices from being compromised by threats.



Virtual Lab Session on Internet Firewalls for Trusted System, Roles of Firewalls for IV Year – 35 students were attended







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2019-2020) EVEN SEM

REPORT ON VIRTUAL LAB SESSIONS









DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2019-2020) EVEN SEMESTER

REPORT ON VIRTUAL LAB SESSION

In KCE, department of Electronics and Communication Engineering, has organized a Virtual lab session for second and third year B.E-ECE students in the month of February, at Digital lab & Microwave lab.

The main objective of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for an electronic circuit's course and Microwave course. The primary purpose of the tool is to provide an environment that mimics some of the failure modes of a real lab, which aids the student in learning debugging techniques and to get familiarized with the usage of the tool for Electronic circuit applications.

For second year students, the virtual lab session was conducted in the title of "Hybrid electronics". The topics covered under this title are Code converters, Registers, Arithmetic logic unit, Multiplexer & demultiplexer, Monostable and Astable Oscillators.

Totally 36 students from II ECE have attended this lab session.





Mr. P.Rajapirian, AP/ECE handling the virtual lab session for II ECE students

For third year students, the virtual lab session was conducted in the title of "RF and microwave characterization lab". The topics covered under this title are

- Study of field pattern of various modes inside a rectangular waveguide & waveguide cavity.
- Measurement of the dielectric constant and loss tangent of materials in microwave frequency band using a rectangular waveguide cavity.
- Introduction to Smith chart and its application for the unknown impedance measurement.
- Study the behavior of impedance matching for passive networks using Smith chart.
- Concept of generalized n-port scattering parameters, and formulation of these parameters into
 2-port reflection and transmission coefficients.
- Introduce the concept of ratio meter, and its significance for the scalar network analyzer.



Mr. T.Jeyaseelan, AP/ECE handling the virtual lab session for III ECE students.



The students eagerly listening the session.

Totally 44 students from III ECE have attended this lab session and gained knowledge.







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2019-2020) ODD SEM

REPORT ON VIRTUAL LAB SESSIONS









DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2019-2020) ODD SEMESTER

REPORT ON VIRTUAL LAB SESSION

In KCE, department of Electronics and Communication Engineering, has organized a Virtual lab session for second and third year B.E-ECE students in the month of August, at Electronic Circuits lab & VLSI lab.

The main objective of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for an electronic circuit's course. The primary purpose of the tool is to provide an environment that mimics some of the failure modes of a real lab, which aids the student in learning debugging techniques and to get familiarized with the usage of the tool for Electronic circuits applications.

For second year students, the virtual lab session was conducted in the title of "Virtual electric circuits lab". The topics covered under this title are Parallel RC & LC circuits, Thevenin's theorem, Series RL circuits, Norton's Theorem, Series LCR circuits and Kirchoff's law.

Totally 35 students from II ECE have attended this lab session.





Mrs. D. Vennila, AP/ECE handling the virtual lab session for II ECE students

For third year students, the virtual lab session was conducted in the title of "Hybrid electronics lab". The topics covered under this title are Code converters, Registers, ADC and DAC, Arithmetic logic unit, Multiplexer & Demultiplexer, Monostable and Astable Oscillators.





Mr. T.Jeyaseelan, AP/ECE handling the virtual lab session for III ECE students.

The students eagerly listening the session.

Totally 44 students from III ECE have attended this lab session and gained knowledge.



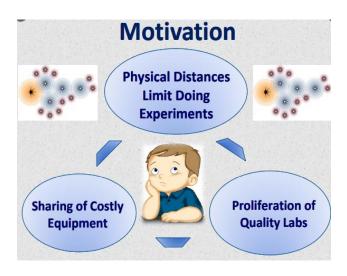


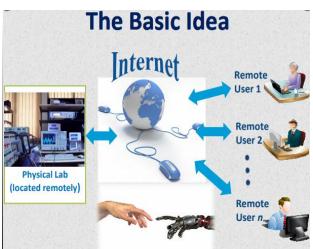


DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING ACADEMIC YEAR 2019-20 (ODD SEM) VIRTUAL LAB REPORT

Objective

- To provide remote- access to labs in various disciplines of Science and Engineering
- To cater the students at UG level, PG level as well as to research scholars
- > To enable the students to learn at their own place and to arouse their curiosity
- > To provide a complete learning management system that includes web resources, video lectures, animated demonstrations and self evaluation





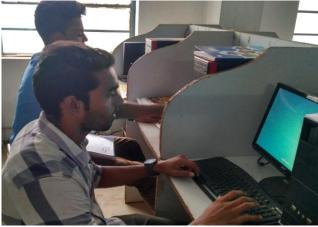
Virtual Power Laboratory, Prof D.K.Chaturvedi by IIT, Kharagpur

Date: 27.08.19 for IV Year EEE (No. of participants: 12)

Session coverage:

- Synchronization of alternator with infinite bus bar.
- Positive sequence, negative sequence and zero sequence reactance of an alternator.
- The dielectric Strength of transformer oil.
- The effect of different shape of electrodes on dielectric (air) breakdown.
- The sub-transient (xd"), transient (xd') and steady state reactance (xd) of a synchronous machine.





Electrical Machines Laboratory offered by IIT ROORKEE

Date: 14.08.19 for II Year EEE (No. of participants: 15) Session coverage:

- Speed Control of DC motor by varying armature and field resistance
- Load Characteristics of DC shunt generator
- Speed control of DC motor by using Ward- Leonard Method of speed control
- Speed control of slipring Induction Motor
- Transformer equivalent circuit from Open Circuit and Short Circuit Test







DEPARTMENT OF MECHANICAL ENGINEERING ACADEMIC YEAR 2019-20 (ODD SEM) VIRTUAL LAB REPORT

Objective

- To enthuse students to conduct experiments by arousing their curiosity.
- To help them in learning basic and advanced concepts through remote experimentation
- To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional webresources, video-lectures, animated demonstrations and self evaluation.

Background & Objective:

Department of Mechanical Engineering has conducted Virtual lab sessions for II year & IV Year students during the academic year 2019-20 (Odd Semester).. The main objective of the Virtual laboratory is to provide remote-access to Labs in various disciplines of Engineering. In the Thematic Session, Mr.M.ASWIN, AP/MECH, explained the theme of the virtual lab sessions. This would help in learning basic and advanced concepts through remote experimentation.

Virtual Lab Sessions:

For IV Year civil students virtual lab sessions were conducted on FABRICATION LABORATORY.

For II Year civil students virtual lab sessions were conducted on Metal forming Simulation Laboratory. It presents the laboratory aspects of this subject, in an imaginary way. Students have an opportunity to view before and after doing the experiment to gauge whether his or her understanding has increased, and to make the student more comfortable while doing experiments.

Metal Forming Virtual Simulation lab, offered by IIT, Kharagpur Date: 10.09.19 for II Year MECH (No. of participants: 64) Session coverage:

- UPSETTING PROCESS
- EXTRUSION PROCESS

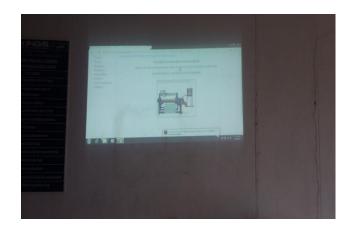




Virtual lab session on Metal forming by Mr.M.Aswin, AP/MECH

FAB Laboratory (Simulator based) offered by IIT, Kharagpur Date: 31.08.19 for IV Year MECH (No. of participants: 88) Session coverage:

- 3D Scanning
- Computer Controlled Cutting of wooden object
- 3D Machining
- PCB design & fabrication
- Interface & Application Programming
- Digital Fabrication of Flexible Circuit board





Virtual lab session on FAB laboratory by Mr.J.Rajaparthiban, AP/MECH

Outcome

Virtual lab showcase the content being taught, which will keep students interested, and provides a form of interaction that could not normally be easily conducted in the classroom.

Virtual lab allows flexibility for the teacher who is not limited by using resources within a strict timeframe. Virtual Labs will be more effective and realistic because of providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment.

The students can explore the experimental procedures prior to actually performing it in the laboratory, and are therefore being much more informed on what is to be done in the laboratory and what results to expect.

The use of the virtual laboratory allows the students to exercise the same in numerous ways in the web which is not easily experimented in the traditional laboratory.

Students will easily understand the concepts and methods by virtually seeing the experiments instead of listening to lectures. For the 'touch and feel' part, the students can possibly visit an actual laboratory for a short duration.

IQAC Coordinator HOD/MECH

ACADEMIC YEAR 2018-2019



DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2018-2019 (EVEN SEMESTER) VIRTUAL LAB SESSIONS

Background & Objective:

Department of Civil Engineering has conducted Virtual lab sessions for II year & III year civil students during the academic year 2018-19 (Even Semester). Laboratories are the important environment for students learning where students get hands on training. The main objective of the Virtual laboratory is to provide remote-access to Labs in various disciplines of Engineering. These Virtual Labs would cater to students at the undergraduate level, as well as to research scholars.

Thematic Session:

In this Thematic Session, Mr.K.Arun, AP/Civil, explained the theme of the virtual lab sessions, which is most appropriate theme in today's environment. Virtual Labs are recreations of actual scientific experiments. Students are given background information on a topic, an explanation of the researcher's observations, and an overview of how they set up their experiment. This would help in learning basic and advanced concepts through remote experimentation.

Virtual Lab Sessions:

For III Year civil students virtual lab sessions were conducted on Environmental Engineering laboratory and Concrete & Highway Engineering Laboratory. Concrete is one of the very important engineering materials. It is critical to quantify the various properties of water in order to predict its behaviour under different conditions for the safe design of treatment plants.

For II Year civil students virtual lab sessions were conducted on strength of materials laboratory and Hydraulic Engineering Laboratory. It presents the laboratory aspects of this subject, in an imaginary way. Students have an opportunity to view before and after doing the experiment to gauge whether his or her understanding has increased, and to make the student more comfortable while doing experiments.

S No	YEAR / SEM	LAB NAME	STAFF INCHARGE
1	II/IV	CE8481 – STRENGTH OF MATERIALS	Mrs.M.Priya
		LABORATORY	
2	II/IV	CE8461 – HYDRAULICS ENGINEERING	Mr.S.Kamaraj
		LABORATORY	
3	III/VI	CE6611 – ENVIRONMENTAL ENGINEERING	Mrs.V.Ishwarya
	-	LABORATORY	
4	III/VI	CE6612 – CONCRETE AND HIGHWAY ENGG.	Mr.S.R.Elwin Guru
		LABORATORY	Chanth





Virtual lab sessions - Strength of Materials Laboratory





Virtual lab sessions - Hydraulics Engineering Laboratory





Virtual lab sessions - Concrete & Highway Engineering Laboratory





Virtual lab sessions - Environmental Engineering Laboratory

Outcome

- ❖ Virtual lab allows flexibility for the teacher who is not limited by using resources within a strict timeframe. Virtual Labs will be more effective and realistic because of providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment.
- ❖ Virtual lab showcase the content being taught, which will keep students interested, and provides a form of interaction that could not normally be easily conducted in the classroom.
- ❖ The students can explore the experimental procedures prior to actually performing it in the laboratory, and are therefore being much more informed on what is to be done in the laboratory and what results to expect.
- ❖ Students will easily understand the concepts and methods by virtually seeing the experiments instead of listening to lectures. For the 'touch and feel' part, the students can possibly visit an actual laboratory for a short duration.
- ❖ The use of the virtual laboratory allows the students to exercise the same in numerous ways in the web which is not easily experimented in the traditional laboratory.



DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2018-2019 (ODD SEMESTER) VIRTUAL LAB SESSIONS REPORT

Venue: CADD LAB Date: 7th & 8th OCT, 2018

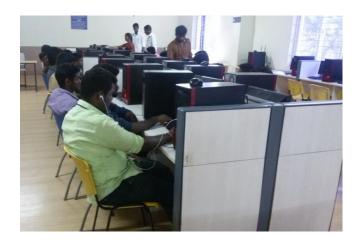
Time: 3:00 - 4:30pm

Background & Objective

Department of Civil Engineering has conducted Virtual lab sessions on 7th & 8th OCT, 2018 for II year and III year civil students at Kings College of Engineering. Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars. Mr.K.Arun, AP/Civil organized the virtual lab sessions for the respective classes

Thematic Session

In this Thematic Session, Mr.K.Arun, AP/Civil, explained the theme of the virtual lab sessions, which is most appropriate theme in today's environment. Web enabled experiments can be designed for remote operation and viewing so as to enthuse the curiosity and innovation into students. This would help in learning basic and advanced concepts through remote experimentation. Internet-based experimentation further permits use of resources, knowledge, software, and data available on the web, apart from encouraging skillful experiments being simultaneously performed at points separated in space (and possibly, time). For III Year civil students virtual lab sessions were conducted for soil mechanics laboratory. For II year civil students virtual lab sessions were conducted for CADD laboratory.





Virtual lab Sessions

Outcome

Virtual Labs will be more effective and realistic because of providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment. Students will easily understand the concepts and methods by virtually seeing the experiments instead of listening to lectures. For the 'touch and feel' part, the students can possibly visit an actual laboratory for a short duration. With in the virtualization of the laboratory experiments, the students can explore the experimental procedures prior to actually performing it in the laboratory, and are therefore being much more informed on what is to be done in the laboratory and what results to expect.







11.02.2019

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2018-19 (EVEN SEM)

VIRTUAL LAB REPORT ARTIFICIAL NEURAL NETWORK

About Program

In KCE, department of CSE has organized a Virtual lab session for third year B.E-CSE students on 11.02.2019 at CSE lab. The main objective of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for the Artificial neural network course. The AI course involves Learn the methods of solving problems using Artificial Intelligence.

For III year students, the virtual lab session was conducted in the title of "Artificial Neural Network **(Simulation Based)**". The topics covered under this title are An Artificial Neural Network (ANN) is a computational model inspired by networks of biological neurons, wherein the neurons compute output values from inputs.

Photos



Virtual Lab Session on Artificial Neural Network for III Year - 40 students were attended







11.02.2019

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2018-19 (EVEN SEM)

VIRTUAL LAB REPORT AGILE PROCESS

Objective

- To Understand the phases in a software project
- To Understand fundamental concepts of requirements engineering and Analysis Modeling.
- To Understand the various software design methodologies.
- To Learn various testing and maintenance measures

Benefits of the Agile

- A <u>dictionary</u> defines Agile as the ability to move quickly. In the equally conventional world of IT & Project Management,
- Agile refers to a methodology that is based on continuous development and deployment.
- It promotes periodic inspection and proficient adaptation of new changes that are beneficial for an organization.

Photos



Virtual Lab Session on Cloud Computing for III Year - 39 students were attended







27.08.2018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2018-19 (ODD SEM)

VIRTUAL LAB REPORT Cloud Computing

Objective

- To Gain knowledge on the concept of virtualization that is fundamental to cloud computing.
- To Learn how to program the grid and the cloud.
- To Understand the security issues in the grid and the cloud environment.

Benefits of the Virtual Lab

- Connect from a web browser or app on nearly any Windows, MacOS, Android or iOS device
- Access the most popular lab software, without having to load it on your devices
- Secure your work with cloud-based services and storage behind Pitt Passport signon and Duo multifactor authentication
- Work online, with no need to use PittNet VPN

Download the Client

- 1. Navigate to https://docs.microsoft.com/en-us/azure/virtual-desktop.
- 2. From the Connect to Windows Virtual Desktop section, click on the link for the type of device you are using.
- 3. Follow the directions on the page to install the client and connect to the Virtual Lab.
- 4. To add a workspace, in the Remote Desktop client select the Workspaces tab. Click the "+" sign and choose Add Workspace.

Photos



Virtual Lab Session on Cloud Computing for IV Year







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2018-2019) EVEN SEM

REPORT ON VIRTUAL LAB SESSIONS









DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2018-2019) EVEN SEMESTER

REPORT ON VIRTUAL LAB SESSION

In KCE, department of Electronics and Communication Engineering, has organized a Virtual lab session for second and third year B.E-ECE students on 07-02-19 and 11-02-19 at DSP lab & VLSI lab.

The main objective of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for the basic electronic circuit's course. The primary purpose of the tool is to provide an environment that mimics some of the failure modes of a real lab, which aids the student in learning debugging techniques and to get familiarized with the usage of the tool for Electronic circuits applications.

The Digital signal processing course involves taking an input signal, performing some action on the signal to generate a new waveform as the output. The action may be amplification, filtering or any other function applied on the signal. All signals in nature are continuous.

For second year students, the virtual lab session was conducted in the title of "**Basic Electronics lab (Simulation Based)**". The topics covered under this title are BIT common emitter characteristics, BIT common Base characteristics, Zener diode voltage regulator, Study of BIT CE amplifier & RC differentiator and Integrator circuits.







Mr. S.Ramarajan, AP/ECE handling the virtual lab session for II ECE students.

The students eagerly listening the session.

Totally 49 students from II ECE have attended this lab session.

For third year students, the virtual lab session was conducted in the title of "Digital VLSI design virtual lab (simulation Based)". The topics covered under this title are :

To plot the characteristics of MOSFET

To design the characteristics of CMOS inverter

To design a ring oscillator

To design the latches and registers.

These experiments enable a student to learn how to view the real life analog signal with an oscilloscope. How to set the amplitude, frequency and phase of the signal source. How to set the sampling frequency of the source. etc..









Mr.T.Jeyaseelan, AP/ECE handling the virtual lab session for III ECE students.

Totally 53 students from III ECE have attended this lab session and gained knowledge.







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2018-2019) ODD SEM

REPORT ON VIRTUAL LAB SESSIONS









DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2018-2019) ODD SEM

REPORT ON VIRTUAL LAB SESSION

In KCE, department of Electronics and Communication Engineering, has organized a **Virtual lab session** for second and third year B.E-ECE students from 27-08-18 to 30-08-18, **at Electronic Circuits lab & VLSI lab.**

The **main objective** of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for an electronic circuit's course. The primary purpose of the tool is to provide an environment that mimics some of the failure modes of a real lab, which aids the student in learning debugging techniques and to get familiarized with the usage of the tool for Electronic circuits applications.

For second year students, the virtual lab session was conducted in the title of "Virtual electric circuits lab". The topics covered under this title are Parallel RC & LC circuits, Thevenin's theorem, Series RL circuits, Norton's Theorem, Series LCR circuits and Kirchoff's law.

Totally 49 students from II ECE have attended this lab session.





Mrs. D. Vennila, AP/ECE handling the virtual lab session for II ECE students

For third year students, the virtual lab session was conducted in the title of "**Hybrid electronics lab**". The topics covered under this title are Code converters, Registers, ADC and DAC, Arithmetic logic unit, Multiplexer & Demultiplexer, Monostable and Astable Oscillators.





Mr. T.Jeyaseelan, AP/ECE handling the virtual lab session for III ECE students.

The students eagerly listening the session.

Totally 56 students from III ECE have attended this lab session and gained knowledge.

ACADEMIC YEAR 2017-2018



DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2017-2018 (EVEN SEMESTER) VIRTUAL LAB SESSIONS

Venue: CADD LAB Date: 8th & 9th MAR 2018

Time: 3:00 - 4:30pm

Background & Objective

Department of Civil Engineering has conducted Virtual lab sessions on 8th & 9th MAR, 2017 for III year & II year civil students at Kings College of Engineering. It aims to provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars. To enthuse students to conduct experiments, by arousing their curiosity.

Thematic Session

In this Thematic Session, Mr.K.Arun, AP/Civil, explained the theme of the virtual lab sessions, which is most appropriate theme in today's environment. Web enabled experiments can be designed for remote operation and viewing so as to initiate the curiosity and innovation into students. This would help in learning basic and advanced concepts through remote experimentation. Virtual Labs are recreations of actual scientific experiments. Students are given background information on a topic, an explanation of the researcher's observations, and an overview of how they set up their experiment. Students have an opportunity to view before and after doing the experiment to gauge whether his or her understanding has increased, and to make the student more comfortable while doing experiments.

General Notes

For III Year civil students virtual lab sessions were conducted on soil mechanics laboratory. Soil is one of the very important engineering materials. Properties of the soil can be determined by both field and laboratory test methods. It is critical to quantify the various properties of soil in order to predict its behaviour under different loading conditions for the safe design of soil structures.

For II Year civil students virtual lab sessions were conducted on strength of materials laboratory. It presents the laboratory aspects of this subject, in an imaginary way. It is intended to give an experimental understanding and verification of the coursework covered in Strength of Materials. Students will have the opportunity to review the theory, appreciate the fundamental concepts through these virtual labs.









Virtual lab sessions

Outcome

- Virtual Labs will be more effective and realistic because of providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment.
- ❖ Students will easily understand the concepts and methods by virtually seeing the experiments instead of listening to lectures. For the 'touch and feel' part, the students can possibly visit an actual laboratory for a short duration.
- ❖ With in the virtualization of the laboratory experiments, the students can explore the experimental procedures prior to actually performing it in the laboratory, and are therefore being much more informed on what is to be done in the laboratory and what results to expect.
- ❖ The use of the virtual laboratory allows the students to understand the complexity in the information associated with the laboratory experiments and also to exercise the same in numerous ways in the web which is not easily experimented in the traditional laboratory.



DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2017-2018 (ODD SEMESTER) VIRTUAL LAB SESSIONS

Venue: CADD LAB Date: 5th & 6th SEP, 2017

Time: 3:00 - 4:30pm

Background & Objective

Department of Civil Engineering has conducted Virtual lab sessions on 5th & 6th SEP, 2017 for III year civil students at Kings College of Engineering.

It aims to provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars. In view to it, Mr.K.Arun, AP/Civil is made incharge for conducting virtual lab sessions in the selected topics.

Thematic Session

In this Thematic Session, Mr.K.Arun, AP/Civil, explained the theme of the virtual lab sessions, which is most appropriate theme in today's environment. Web enabled experiments can be designed for remote operation and viewing so as to enthuse the curiosity and innovation into students. This would help in learning basic and advanced concepts through remote experimentation. Today most equipment has a computer interface for control and data storage. It is possible to design good experiments around some of this equipment which would enhance the learning of a student. Internet-based experimentation further permits use of resources, knowledge, software, and data available on the web, apart from encouraging skillful experiments being simultaneously performed at points separated in space (and possibly, time).

General Notes

For III Year civil students virtual lab sessions were conducted on soil mechanics laboratory. Soil is one of the very important engineering materials. Properties of the soil can be determined by both field and laboratory test methods. The soil mechanics and foundation engineering laboratory is a compulsory and basic undergraduate course where introduction to Geotechnical Engineering will be provided and also for graduate level research students. The use of the virtual laboratory allows the students to understand the complexity in the information associated with the laboratory experiments and also to exercise the same in numerous ways in the web which is not easily experimented in the traditional laboratory.





Virtual lab sessions

Salient Features

- Virtual Labs will provide to the students the result of an experiment by one of the following methods (or possibly a combination)
- ❖ Modeling the physical phenomenon by a set of equations and carrying out simulations to yield the result of the particular experiment. This can, at-the-best, provide an approximate version of the 'real-world' experiment.
- Poviding measured data for virtual lab experiments corresponding to the data previously obtained by measurements on an actual system.
- * Remotely triggering an experiment in an actual lab and providing the student the result of the experiment through the computer interface. This would entail carrying out the actual lab experiment remotely.

Outcome

Virtual Labs will be more effective and realistic because of providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment. Students will easily understand the concepts and methods by virtually seeing the experiments instead of listening to lectures. For the 'touch and feel' part, the students can possibly visit an actual laboratory for a short duration. With in the virtualization of the laboratory experiments, the students can explore the experimental procedures prior to actually performing it in the laboratory, and are therefore being much more informed on what is to be done in the laboratory and what results to expect.



17.02.18

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2017-18 (EVEN SEM) VIRTUAL LAB REPORT

Objective

- To enthuse students to conduct experiments by arousing their curiosity.
- To help them in learning basic and advanced concepts through remote experimentation
- To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional webresources, video-lectures, animated demonstrations and self evaluation.

Software Engineering Lab (Simulation based), offered by IIT, Kharagpur Date: 06.02.18 for II Year CSE (No. of participants:) Session coverage:

- Identifying the requirements from problem statement
- Estimation of project metrics
- Modeling UML use case diagrams
- E-R modeling from the problem statement
- Identifying domain classes from the problem statement.

Softcomputing tools in Engineering (Simulation based) offered by IIT, Kharagpur Date: 15.02.18 for III Year CSE (No. of participants:) Session coverage:

- Introduction to fundamental of fuzzy logic and basic operations
- Fuzzy inference system
- Fuzzy weighted average and application
- Fuzzy control and application
- Introduction to neural network and Perceptron and application
- Multilayer perceptron and application









Virtual Lab Session on Soft Computing Tools in Engineering for III Year





Virtual Lab Session on Software Engineering for II Year







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2017-2018 / EVEN SEMESTER

VIRTUAL LAB SESSION









DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2017-2018) EVEN SEM

REPORT ON VIRTUAL LAB SESSION

In KCE, department of Electronics and Communication Engineering, has organized a Virtual lab session for second and third year B.E-ECE students on 15-02-18 and 21-02-18 at pallava hall & VLSI lab.

The main objective of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for the basic electronic circuit's course. The primary purpose of the tool is to provide an environment that mimics some of the failure modes of a real lab, which aids the student in learning debugging techniques and to get familiarized with the usage of the tool for Electronic circuit applications.

The Digital signal processing course involves taking an input signal, performing some action on the signal to generate a new waveform as the output. The action may be amplification, filtering or any other function applied on the signal. All signals in nature are continuous.

For second year students, the virtual lab session was conducted in the title of "Basic Electronics lab (Simulation Based)". The topics covered under this title are BIT common emitter characteristics, BIT common Base characteristics, Zener diode voltage regulator, Study of BIT CE amplifier & RC differentiator and Integrator circuits.





Mrs. D.Vennila, AP/ECE handling the virtual lab session for II ECE students.





The students eagerly listening the session.

Totally 56 students from II ECE have attended this lab session.

For third year students, the virtual lab session was conducted in the title of "**Digital Signal processing lab (simulation Based)**". The topics covered under this title are Study of sampling theorem, effect of under sampling, Study of DFT and its inverse, Study of FIR filter design using Window method: Low pass, high pass, band pass & band stop filter Study of infinite impulse response (IIR) filters. These experiments enable a student to learn how to view the real life analog signal with an oscilloscope. How to set the amplitude, frequency and phase of the signal source. How to set the sampling frequency of the source. etc..





Mr.S.Ramarajan, AP/ECE handling the virtual lab session for III ECE students.

Totally 95 students from III ECE have attended this lab session and gained knowledge.







DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2017-18 (EVEN)

VIRTUAL LAB - SENSOR MODELING & SIMULATION LAB

OBJECTIVE OF VIRTUAL LAB:

- ➤ To provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.
- ➤ To enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
- ➤ To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional webresources, video-lectures, animated demonstrations and self evaluation.
- ➤ To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distance.

This project is an initiative of ministry of Human Resource Department under national mission on education through ICT. These experiments and labs will be hosted for open access through the main project website http://sl-coep.vlabs.ac.in/

PROGRAM CONDUCTED:

Department of Electrical & Electronics Engineering conducted virtual lab session for the course sensor modeling & simulation lab.

Venue: Power Simulation Lab

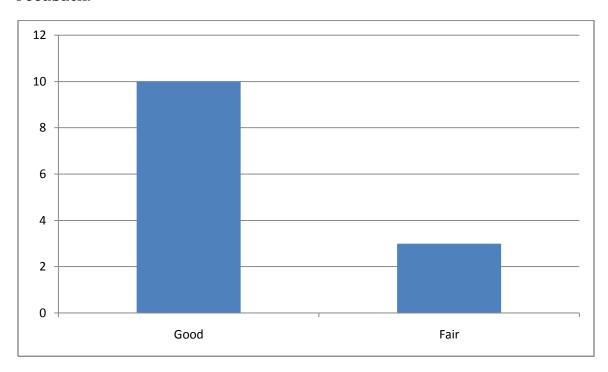
Date: 12.04.18

The session was attended by students of first year EEE. 13 students were attended this program. Feedback also collected for this spoken tutorial workshop, 10 students marked well out of 13 students.





Feedback:









DEPARTMENT OF MECHANICAL ENGINEERING ACADEMIC YEAR 2017-18 (ODD SEMESTER) VIRTUAL LAB – PSYCHROMETRY AND ITS PROPERTIES

OBJECTIVE OF VIRTUAL LAB:

A virtual laboratory is a tool for distance learning and/or experimentation that allows people to share knowledge, data, voice, video, tools, and many other resources. It provides a suitable environment to extend, improve, integrate, refine, and assist the learning and/or experimentation process of many subjects, thus contributing to an increase of the effectiveness of scientific research and widening the use of scarce or costly equipments.

Lab courses richly rely upon new up-to-date content and various techniques that require a new synergy of knowledge and experimental implementation.

This project is an initiative of Ministry of Human Resource Department under National Mission on Education through ICT. These experiments and labs will be hosted for open access through the main project website http://vem-iitg.vlabs.ac.in/

PROGRAM CONDUCTED:

Department of Mechanical Engineering conducted Virtual Lab Session for the course Psychrometry and its properties.

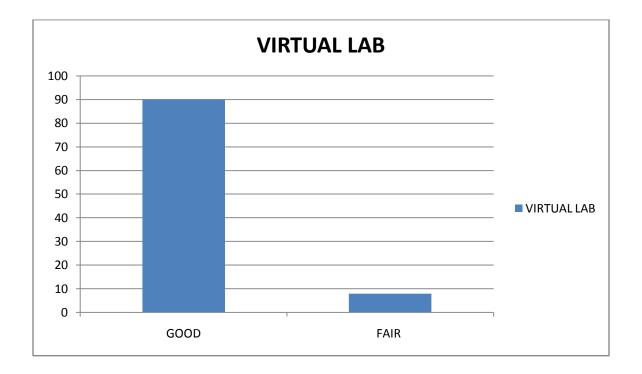
Venue: Drawing Hall Date: 04.08.17

The session was attended by third year Mechanical students. 98 students were attended this program.



FEEDBACK:

Feedback also collected for this virtual lab session, 90 students marked well out of 98.









INTERNAL QUALITY ASSURANCE CELL

6.5.2 NPTEL SESSION EXECUTION REPORT



NPTEL SESSION EXECUTION SUMMARY

S.No	Name of the	2020-	2019-	2018-	2017-
	Department	2021	2020	2019	2018
		No.of	No.of	No.of	No.of
		Courses	Courses	Courses	Courses
1.	CIVIL	31	34	42	54
2.	CSE	32	32	30	16
3.	ECE	32	34	43	56
4.	EEE	31	32	33	32
5.	MECH	38	46	47	66
6.	S&H	60	60	66	-
TOTAL		224	238	261	224

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S NO	DESCRIPTION	Page No
1	Academic Year : 2020-2021	1-22
2	Academic Year : 2019-2020	23-43
3	Academic Year : 2018-2019	44-67
4	Academic Year : 2017-2018	68-84

ACADEMIC YEAR 2020-2021



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CERT

INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-2021 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: CIVIL

		II yr CIVIL			G. 55
Sub	Sub Subject name NPTEL session topic Date of Staff Name Staff Signature				
code		& Unit mapped to	execution		Signature
MA8491	Numerical Methods	Prizzon's Ego	29 4.21	Dr.S.Geetha	Juli
CE8401	Construction Techniques & Practices	Turneling Jechniques	10421	Ms.T.Bhuvaneswari	Cho 421
CE8402	Strength of Materials II	Eulers column thisy	27/03/21	Mr.K.Arun	40 X 23 1
CE8403	Applied Hydraulic Engineering	Impulse Turbine.	10/02/21	Dr.R.Saravanan	04 8 10/3/24
CE8404	Concrete Technology	Properties Related	03/04/21	Ms.R.Revathi	Qualy12
CE8491	Soil Mechanics	Direct shoar, Trianial Compression Test	26.4.21	Ms.D.Shrividhya	2.14.
		III yr CIVIL			
CE8601	Design of Steel Structural Elements	Connection 9 its	13.3.21	Mr.M.Balaji	13/3/24
CE8602	Structural Analysis II	plastic hinge and mechanism collapse load	4.5.21	Ms.T.Bhuvaneswari	PHISM
CE8603	Irrigation Engineering	Merhod & Emgahon	27.3.21	Dr.R.Saravanan	On aring
CE8604	Highway Engineering	of Voban & Kundrade	10.3.2)	Ms.D.Shrividhya	8-A-A.
EN8592	Wastewater Engineering	WASB &	27/3/21	Ms.V.Ishwarya	Long.
CE8005	Air pollution & Control Engineering	Control + Preventive measures of noise Palluts Unit - 5	m 18/05/21	Mr.R.Sundharam	B
		IV yr CIVIL			
GE8076	Professional Ethics in Engineering	Moral leadership unit 4	27/3/21	Dr.K.Sudhakar	8
CE8022	Prefabricated Structures	modular coordination	16.12.20	Mr.K.Ranjith	r.624.

IQAC MEMBER (K.ARUN)

J. mutujard

HOD/CIVIL (Ms.R.REVATHI)

PRINCIPAL (Dr.J.ARPUTHA VIJAYA SELVI)



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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-2021 / ODD SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT : CIVIL

		<u>CLASS: II CIVIL</u>		T	T
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA8353	Transforms and Partial Differential Equations	one dimensional news	06.10.202	Ms.S.Revathi	S. Que
CE8301	Strength of Materials I	Single Stress any stran	14/8/20	Mr.K.Arun	ACT M
CE8302	Fluid Mechanics	Pier naterials - Units	28 . 8 .2020	Ms.V.Ishwarya	18
CE8351	Surveying	Hon bontal and Vertice	1010	Ms.K.Bhavarohini	B 25/8/0
CE8391	Construction Materials	Compaction of concerte	18/9/2020	Mr. R.Sundharam	8
CE8392	Engineering Geology	Analysia of Confinuous Beans - UNIT-D	111/20	Ms.T.Bhuvaneswari	a toto
		CLASS: III CIVIL			
CE8501	Design of Reinforced Concrete elements	objectives of structural design - Unit -1	12/8/20	Mr. S.R.Elwin Guru Chanth	12/8/20
CE8502	Structural Analysis I	classification of Rocks-UNIT	15/9/20	Ms.T.Bhuvaneswari	(Wistatio
EN8491	Water Supply Engineering	Rayleights methat white	18 9 2020	Ms.V.Ishwarya	18
CE8591	Foundation Engineering	Types of footings	18/9/2020	Ms.M.Priya	M. Payer
OAI551	Environment and Agriculture	Global Warming	039/20	Ms.K.Bhavarohini	BARIL
GI8014	Geographic Information System	ER Diagram Unit-11	7.09.20	Ms.K.Jeyashankari	Jyey To
		CLASS: IV CIVIL			
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
CE8701	Estimation, Costing and Valuation	Estimation of quantities for buildings. Unit -?	15/8/20	Mr. S.R.Elwin Guru Chanth	1 18/2 ×
CE8702	Railways, Airports, Docks and Harbour	Airport Planning Unit - TII	14.09.20	Ms.K.Jeyashankari	Sygin.
CE8703	Structural Design and Drawing	R.c. (. Water tanks Unit - 3	12/9/20	Mr.K.Ranjith	6. Outher
CE8011	Concrete Structures	Desgin of auchorage Zone UNIT-TIL	21/9/20	Ms.R.Revathi	Q 21191
OEN7E1	Green Building design	Incidence of solar heaton buildings - UNIT-3	15.9.20	Ms.M.Priya	W. Dix

(K.ARUN)

HOD/CIVIL (Ms.R.REVATHI)

PRINCIPAL (Dr.J.ARPUTHA VIJAYA SELVI)







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-21 (Even Sem) NPTEL SESSION EXECUTION STATUS

DEPT: CSE

ub.code & Sub.Name	NPTEL session topic & Unit mapped to	Date of execution	Staff incharge	Signature
YEAR: SEM: SEC: II/IV				
MA8402 - Probability & Queuing Theory	Single 9 Multiple Server Quewing	15.3.21	Mrs.T.Gnanajeya	P. J - FA
CS8491 - Computer Architecture	Memory Hierarchy	20.4.21	Mrs.S.Puvaneswa ri	se. Run
CS8492 - Database Management Systems	ODL, OBL	17.2.2)	Ms.J.Chandra Priya	duntul
CS8451 - Design & Analysis of Algorithm	Approximation Algorithm for NP	18.2.21	Mr.S.Rajarajan	Short
CS8493 - Operating Systems	Process Concept Process Scheduling	23/3/21	Ms.K.Abhirami	K Deer
CS8494 - Software Engineering	Agile Process	9/2/21	Dr.D.Sivakumar	- Link
YEAR: SEM: SEC:III/VI				
CS8651 - Internet Programming	Arimaker	24.30	Mr.R.Sriramkum ar	ayu
CS8691 - Artificial Intelligence	Constraint Satisfu	22·3·21	Mrs.S.Puvaneswa ri	S. Pu
CS8601 - Mobile Computing	Gson & Sens Architectu	25.3.21	Dr.S.M.Uma	5-5-
CS8602 - Compiler Design	Stack allocation	7 2-3-21	Mrs.G.Chandrapr aba	g.ce
CS8603 - Distributed Systems	Synchrowizing Physical Clax	21.3.2	Ms.J.Chandra Priya	dungen
IT8076 - Software Testing	Synchronizing Physical Clax Adhor testing Alpha Bolo Par	16.3.21	Ms.R.Suganthala shmi	State
CS8651 - Internet Programming	Animation	24.3.21	Mr.R.Sriramkum ar	The
YEAR: SEM: SEC: IV /	VIII			
CS6801 - Multicore architectures and	MPI-derive datables	21.3.21	Ms.P.Nalayini	PNUS

IT6011 - Knowledge management

Vocabulary Control

23-3-24

Mr.S.Rajarajan

Soft

IQAC Member

8 25/3/21







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-21 (Odd Sem) NPTEL SESSION EXECUTION STATUS

DEPT: CSE

Sub.code & Sub.Name	NPTEL session topic & Unit mapped to	Date of execution	Staff incharge	Signature
YEAR : SEM : SEC: II/ IV				81.
MA8351- Discrete Mathematics	propossional logic Rules of inference	12.9.20	Dr.R.Suresh	The same
CS8351- Digital Principles and System Design	Syrchronous Sequential Circuits.	15/11/20.	Ms.D.Vennila	O. Jestino
CS8391- Data Structures	Sorting	HINIO	Mr.M.Arun	0 7 50
CS8392 - Object Oriented Programming	Aut	6/11/20	Dr.D.Sivakumar	2 Lin
EC8395 - Communication Engineering	VSB-PSB-	6(11/20	Mr.R.Balakrishnan	83
YEAR: SEM: SEC:III/VI				
MA8551 - Algebra and Number Theory	Integral domeins	4,11,20	Dr.G.Shankara kalidoss	R
CS8591 - Computer Networks	IPV6, IPVY	5-11-20	Mr.K.Rajesh	Krajn
EC8691 - Microprocessor & Microcontroller	Auchitedrum of 8051 Micro Control	8 149-20	Mr.R.Thandayutha pani	R-Jago
CS8501 - Theory of Computation	Equivalence of PDA & CFG.	11.9.200	Ms.S.Puvaneswari	S. Pew
CS8592 - Object Oriented Analysis & Design	Aggregation	12/9/200	Dr.S.M.Uma	55
OMF551 - Product Design and Development	Case study on Value & stryining	11.14.2	Ms.R.Suganthalak hmi	Stop

YEAR: SEM: SEC: IV / VI	il i			
MG8591 - Principles of Management	Effective Communication	24.8.20	Mr.B.Barankumar	top
CS8792 - Cryptography and Network Security	Blockchain	到電視	Mr.S.Rajarajan	13/2X
CS8791 - Cloud Computing	SAM	23:8:20	Ms.B.Sangeetha	Sen
OME752 -Supply Chain Management	Pole of notwork dear in Eupply Chain	8/m/no	Ms.G.Chandraprab ha	a.C.
IT8075 - Software Project Management	Risk Evaluation - Strategic Program	20.8.20	Mr.R.Sriramkumar	Despus
CS8088 - Wireless Adhoc & Sensor Network	NASN- Applicate	18.9.20	Ms.K.Abhirami	Kalle

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-2021 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: ECE

CLASS: II ECE /4th sem

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name Dr.D.Samundeeswari	Staff Signature
MA8451	Probability and Random Processes	Unit – 1 Discrete and continuous random variables.	20.04.21		Sem
EC8452	Electronic Circuits II	Unit – 2 Oscillator amplitude stabilization	92.3.2	Mrs.U.Jeyamalar	Q-
EC8491	Communication Theory	Unit – 1 DSBSC, SSB, VSB	20.2.21	Mrs. D. Vennila Mr. K. Sudarsanan	O. Verlan
EC8451	Electromagnetic Fields	Unit – 5 Group velocity, EM power flow and pointing vector	1.5.21		Sony
EC8453	Linear Integrated Circuits	Unit – 2 Logarithmic and Antilogarithmic amplifier.	17.3.21	Mr.R.Thandayuthapani	6/20
2 1	Environmental science and	Unit – 1 Aquatic Eco systems Unit – 2	1.3.21	Dr.V.Sureshkumar	(29)
GE8291	Engineering	Nuclear hazards – soil waste management.	19.3.21		,

CLASS: III ECE/ 6th sem

١				F 100-120		A -
	EC8691	Microprocessors and Microcontrollers	Unit – 5 ADC and DAC Interfacing	05- 5- २।	Dr. T. Shanthi	400
	EC8095	VLSI Design	Unit – 4 Arithmetic building blocks: Data paths, Adders	28.4.21		DC.
	EC8652	Wireless Communication	Unit – 5 MIMO Systems	30.04.21	Mr. R. Sathyaraj	Ame
	MG8591	Principles of Management	Unit – 1 Evolution of Management Unit – 5 Budgetary and non budgetary control techniques.	1-3-21	Dr.K.Sudhakar	Polm

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
EC8651	Transmission Lines and RF Systems	Unit -4 TM and TE waves in circular waveguides	26.4.21	Mr.R.Balakrishnan	26/4/2
EC8002	Multimedia Compression and Communication	Unit – 5 Media levity, Media synchronization, Models for temporal specifications	3 5/2021	Mrs.N.Mangaiyarkarasi	

CLASS: IV ECE /8th sem

EC8072	Electro Magnetic Interference and Compatibility	Unit – 1 Sources and Victims of EMI	15.12.20	Mrs.R.Ponni	M.
EC8094	Satellite Communication	Unit – 2 Spacecraft Technology- Structure, Primary power.	28/12/20	Mr.P.Rajapirian	Pl

IQAC Member (D.Vennila)

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INTERNAL QUALITY ASSURANCE CELL

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

NPTEL SESSION EXECUTION STATUS

DEPARTMENT: ECE

Sub subject name		NPTEL session topic & Unit Date of execution		Staff Name	Staff Signature	
MA8352	Linear Algebra and Partial Differential Equations	Unit – 4 Classification of partial differential equations Unit-2 Matrix representation of a linear transformations	2.9.20	Mrs.T.Gnanajeya	7.10	
EC8393	Fundamentals of Data Structures In C	Unit – 5 Bubble sort and Insertion Sort	17-10-20	Mrs. S.Puvaneswari	S. Ru	
EC8351	Electronic Circuits- I	Unit – 5 Power supply performance and testing	16.10-20	Mr.S.Sivakumar	Pre-	
EC8352	Signals and Systems	Unit – 1 Linear & Non linear Time variant & Time invariant Causal &Non causal Stable & Unstable	21.8.20	Mr.K.Sudarsanan	Shril	
EC8392	Digital Electronics	Unit – 3 Flip-flops- SR, JK,D,T and master slave operation and excitation tables	23.9.20	Mrs.R.Ponni	W.	
EC8391	Control Systems Engineering	Unit – 1 Analytical design for PD, PI and PID control systems	24.9.20	Mrs.U.Jeyamalar		

CLASS: III ECE/5th sem

EC8501	Digital Communication	Unit-5 Hamming codes	8/10/20	Mr.A.Herald	a. We
EC8553	Discrete-Time Signal Processing	Unit-2 Impulse invariance method, Bilinear transformation	17.9.20	Mr.S.Ramarajan	3-1

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
CC8552 Computer Architecture and Organization Unit-1 Addressing and addressing modes		25.08-20	Mr.R.Sathyaraj	of hor R	
EC8551	Communication Networks	Unit-2 IPV4 address	21.9.20	Mrs.P.Thirumagal	p.02
EC8073	Medical Electronics	Sources of hio medical	27-8-20	Dr.T.Shanthi	W
OR0551	Renewable Energy Source	Unit – 1 Flat plate collector	01/9/2020	Mrs. N.Mangaiyarkaras	1 9/2
2 1 1		CLASS: IV ECE /7	7 th sem		and the second
EC8701	Antennas & microwave Engineering	Unit – 5 Smart Antennas	5.10.20		25
Ecs751 Optical communication		Unit – 1 Transverse electric and transverse magnetic modes		Mr.T.Pasupathi	T. Pomer Ly
EC8791	Embedded and real time Systems	Unit – 1	27.8.20	Mr.T.Jeyaseelan	\$/-
EC 8702 Ad-hoc and wireless IEEE		Unit – 3 IEEE 802.15.4 MAC protocol	29/09/20	Mr.P.Rajapirian	Ph.
EC 8092	Advanced Wireless communication	Unit – 1 Frequency selective channels	27,08-20	Mr.R.Sathyaraj	xha
OIC751	Transducer Engineering	Unit - 5 Smart Sensors	8.10.20	Mrs.U.Jeyamalar	9

IQAC Member (D.Vennila)

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HOD / ECE 17/10/2010







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-2021(EVEN SEMESTER) NPTEL SESSION EXECUTION STATUS

DEPT:EEE

Sub.code & sub.Name	Name of the Staff	NPTEL session topic &Unit mapped to	Date of execution	Staff in charge sign
		II YEAR		
MA8491- Numerical methods	Dr.S.Revathi	Finite difference technique to the Solution OF 2D Laplace ogm	08.4.21	8. Que
EE8401- Electrical Machines- II	Mr.C.John Selvaraj	Testing of Transformer	3-09-21 9/3/1/	tope
EE8402-Transmission & Distrubution	Dr.P.Narasimman	Real and Reactive Power flow in Unes	21.01.21	P. Carrie
EE8403- Measurement & Instrumentation	Mrs.P.Thirumagal	Static and dynamic changement	10-3-21	pm
EE8451- Linear Integrated & circuits	Mr.T.Pasupathi	Summu, differentiator and integrator	12.3.21	Tilmfut
IC8451-Control Systems	Mr.S.R.Karthikeyan	signal flow graphs	08/03/21	5.1 bank
		III YEAR		
EE8601-Solid States Drives	Mr.R.Sundaramoorthi	+ Quadrant operation of Concessor schoppes fed drive and application	18(03)2024	Q-Qamban
EE8602-Protection and Switchgears	Dr.A.Albert Martin Ruban	OVER current veloys.	1/2/21	& Wim
EE8691-Embedded Systems	Mrs.P.Thirumagal	serial but communication protocol	15/3/21	7. M

EE8002-Design of Electrical Apparatus	Dr.S.Sivakumar	Design of transformer - Constaction.	01. 02.21	t. Bag
EE8005-Special Electrical Machines	Mr.J.Arokiaraj	Drive Circuits.	25.1.21	662
1000		IV YEAR		
EE8015- Electric Energy Generation, Utilization and Conservation	Mrs.N.Rajeswari	motor lije cycle	8(3(21	N.R.S.
EE8018- Microcontroller Based System Design	Dr.M.Meenalochani	ARM Architecture	21.1.27	el clas

of Almin,

7.7. bortely 15/4/21







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-2021(ODD SEMESTER) NPTEL SESSION EXECUTION STATUS

DEPT:EEE

Sub.code & sub.Name	Name of the Staff	NPTEL session topic &Unit mapped to	Date of	Staff in
		II YEAR	execution	charge sign
MA8353 -Transforms and Partial Differential Equations	Mr.G.Jeyakrishnan	Pamsevalk identity	10.9.20	(Sel)
EE8351- Digital Logic Circuits	Mrs.D.Vennila	MOSRET SR, JK, DAT	15.9.20	D. Jennis
EE8391- Electromagnetic Theory	Mrs.N.Rajeswari	Gauss's law and application.	25.08.20	NRung.
EE8301- Electrical Machines - I	Mr.C.John Selvaraj	Testing of Granstormer	14/10/20	+ 5.1. ··
EC8353- Electron Devices and Circuits	Mr.W.Newton David Raj	MOSFET	11/09/2020	MINEMP.
ME8792- Power Plant Engineering	Mr.J.Arokiaraj	Diesel-cycle	31-08-20	Day
	2	III YEAR	-1 00-20	- BC 0
EE8501- Power System Analysis	Dr.S.Sivakumar	Single line diagram	24-08-20	+ B
EE8551- Microprocessors and Microcontrollers	Dr.M.Meenalochani	Programming: Loop structure with counting and Indexing	16.9.2020	Cl. Core
EE8552- Power Electronics	Mr.S.R.Karthikeyan	Fining Schemes for convention	11 9 2020	5.1. Carry

EE8591- Digital Signal Processing	Mr.K.Sudharsan	IIR filter derign	17 10 2023	dhow
CS8392- Object Oriented Programming	Mrs.R.Ranitha	Exceptions - Exception Hierard	40	R. Perti
OMD551- Basics of Biomedical Instrumentation	Mr.R.Sundaramoorthi	Rightleg driven ECG amplifier	25/08/20	Que constru
		IV YEAR		
EE8701- High Voltage Engineering	Mr.S.Sakthivel	Insulation Corordination	14/10/20	P 1 :11
EE8702- Power System Operation and Control	Mrs.N.Arulmozhi	Statement of cubility statement of cupremin of duppeted proflem	25/08hs	En Se and
EE8703- Renewable Energy Systems	Dr.A.Albert Martin Ruban	Introduction of Bio	11/9/20	d dumm
OCS752- Introduction to C Programming	Mr.S.Rajarajan	Pointer Operators	17/10/2021	Way .
GE8071- Disaster Management	Mr.B.Sureshbabu	Role of Social medie in Disaglio management	14/10/20	R. Chan
EE8010- Power Systems Transients	Mr.S.R.Karthikeyan	Qualities application		5 M. borthing

7.1. borthi luy 4/1/2/

of Minns



INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-2021 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: MECHANICAL

CLASS: II MECH

SUBJ CODE	NAME OF THE SUBJECT	NPTEL TOPIC	PROPOSED DATE OF EXECUTION
MA8452	Statistics and Numerical Methods	Powers method	15.3.21.
ME8492	Kinematics of Machinery	Quica return Mechaism	15.03.21
ME8451	Manufacturing Technology – II	Merchant's circle	11 -03-21
ME8491	Engineering Metallurgy		30,03.21
CE8395	Strength of Materials for Mechanical Engineers	Fibre veinforceset perha SFD, BMD Calculations	30.03.21
ME8493	Thermal Engineering- I	MUILISLAGE AIY COMPYESOY	26 -03 -21.

CLASS: III MECH

SUBJ CODE	NAME OF THE SUBJECT	NPTEL TOPIC	PROPOSED DATE OF EXECUTION
ME8651	Design of Transmission Systems	Sliding Mesh Great BOX	02-04-51
ME8691	Computer Aided Design and Manufacturing	Computer graphies Quize, Flori chant, Semirar	10.03.21
ME8693	Heat and Mass Transfer	Quize, Flori chart, Semirar	12.3.2021
ME8692	Finite Element Analysis	10 shape function.	11-3-21.
ME8694	Hydraulics and Pneumatics	Basics of hydraulicy	30.3.21
ME8091	Automobile Engineering (E)	Types engine annilong	25 - 3. 21

CLASS: IV MECH A

SUBJ CODE	NAME OF THE SUBJECT	NPTEL TOPIC	PROPOSED DATE OF EXECUTION
MG8591	Principles of Management	Budgetany tech	23/3/21
ME8094	Computer Integrated Manufacturing Systems	Flessible Hamutacturing	17/3/21
		System	

CLASS: IV MECH B

SUBJ CODE	NAME OF THE SUBJECT	NPTEL TOPIC	PROPOSED DATE OF EXECUTION
MG8591	Principles of Management	Budgestary leeh.	23/2/21
ME8094	Computer Integrated Manufacturing Systems	Flexible Manufacture	17/2/2
		200	113/2

IQAC Member (ASWIN.M)







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2020-2021 / ODD SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: MECHANICAL

CLASS: II MECH

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
MA8353	Transforms and Partial Differential Eqns	Dr.G.Ramya Arockia Mary	Discrete Mathematics	23.8.20	GAR
ME8391	Engineering Thermodynamics	Mr.H.Agilan	Carnot's cycle	16.7.20	The state of the s
CE8394	Fluid Mechanics and machinery	Mr.M.Melwin J Sridhar	Reciprocating pump	16.9.20	370
ME8351	Manufacturing Technology-I	Mr.S.Karthi	Investment casting	19.8.20	Syaszhie
EE8353	Electrical Drives and Controls	Mr.C.John selvaraj	DC compound motors	18.9.20	Jan -

CLASS: III MECH

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME8595	Thermal Engineering II	Mr.S.Desikan	Boilers Accessories	22 8 20	SD-=
ME8593	Design Of Machine Elements	Mr.V.Vijayakumar	Factors influencing Machine design	24.8.20	19m
ME8501	Metrology & Measurements	Mr.N.Magesh	CMM and its types	19.8.20	100
ME8594	Dynamics Of Machines	Mr.J.Rajaparthiban	Forced vibrations and damping	14.8.20	fre
OAT552	Internal Combustion Engines	Dr.P.P.Shantharaman	Engine cooling system	20.8.20	8.0.52

CLASS: IV MECH A

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME8792	Power Plant Engineering	Dr.T.Pushparaj	Nuclear power plant	22.8.20	Janharg. T
ME8793	Process Planning & Cost Estimation	Mr.S.Sabanayagam	CAPP and its types	13.8.20	bef
ME8791	Mechatronics	Mr.R.Shankar	Proximity sensors	11.9.20	R 8 h
OIE751	Robotics	Mr.B.Ram Vignesh	Robot Kinetics	24 8 20	liz
GE8077	Total Quality Management	Mr.K.Sudhakar	5S and its principles	23. 8.20	K. Sunj
ME8097	Non Destructive Testing and evaluation	Mr.V.Vijayakumar		9.9.20	

CLASS: IV MECH B

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME8792	Power Plant Engineering	Dr.P.P.Shantharaman	Steam power plant	23.8.2	1.0/2
ME8793	Process Planning & Cost Estimation	Mr.S.Sabanayagam	FMEA & its types	14.8.20	Sof
ME8791	Mechatronics	Mr.M.Sakthivel	Sensors & Transducers	10.9.20	Root
OIE751	Robotics	Mr.B.Ram Vignesh	Robot sensors and grippers	22.8.20	Ju:
GE8077	Total Quality Management	Mr.K.Sudhakar	5S and its principles	17.8.20	K. 8W_
ME8097	Non Destructive Testing and evaluation	Mr.N.Magesh	RT testing	10-9-20	600)

IQAC Member

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DEPARTMENT OF SCIENCE AND HUMANITIES NPTEL SESSION EXCECUTION STATUS ACADEMIC YEAR 2020-21 (EVEN)

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SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Mr.K.Anandharaj	Das sonaspos	25.4.21	mande
MA8251	Engineering Mathematics – II	Dr.D.Samundeeswari	C-H thuran	25-6-21	Pseud
PH8201	Physics for Civil Engineering	Mr.S.Ambalatharasu	Chilled water plant	07/6/2024	Aug.
BE8251	Basic Electrical and Electronics Engineering	Mr.S.Sivakumar	Transforms	Fibra	des
GE8291	Environmental Science and Engineering	Dr.S.Udayakumar	Nulear Hazards	-9/6/2021	Sun
GE8292	Engineering Mechanics	Mr. M.Balaji	Jani'r Marou	24/6/21	HBAD
			I CSE		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Mr.P.Raajeshwaran	wicebolog asses	2616121	person
MA8251	Engineering Mathematics – II	Dr.S.Revathi	Copytey Hamilton	3.5.2021	8. Due
PH8252	Physics for Information Science	Mrs.S.Anuradha	Thermolconductivity Wiedmann Franzlow	25/6-21	feed
BE8255	Basic Electrical, Electronics and Measurement Engineering	Mr.S.S <mark>ivaku</mark> mar	Transforms	25.6.4	& resk
GE8291	Environmental Science and Engineering	Dr. S.Udhayakumar	Solve Marke	11/6/2021	John
CS8251	Programming in C	Dr.D.Sivakumar	Pointer- pointe operation	25/6/21	22

1		IEC	E		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Mr.J.Radhakrishnan	Cornersonia	26.6.21	Os
MA825	Engineering Mathematics - II	Dr.G.Jeyakrishnan	Cayley Hamilton	3.5.21	GR
PH825 3	Physics for Electronics Engineering	New Staff Ms. T. Abimalaiarasi	Energy bonds in	27.4.21	8
BE8254	Basic Electrical and Instrumentation Engineering	Mr.T.Pasupathi	Three phase from from	27.4.21	T. Pars
EC8251	Circuit Analysis	MrS.Ramarajan	Non Hon's them	25.5.21	S. Lour
EC8252	Electronic Devices	Mr.W. Newton David Raj	mit 4	27.4.21	M. Norte
		IEF	Œ		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Mr.J.Radhakrishnan	will the per way	56.9.51	An
MA825 1	Engineering Mathematics – II	Dr.S.Geetha	Citt theur	25.5.4	Mutte
PH825 3	Physics for Electronics Engineering	New Staff Mrs · S · Anusadha	Therma Conduction	29-9-21	seed
BE8252	Basic Civil and Mechanical Engineering	Mr.M.Aswin	Nuclear power a Applications	16-6-21	AP. F
EE8251	Circuit Theory	Mr.T.Jeyaseelan	Mortons	16-6-29	Lugal
GE8291	Environmental Science and Engineering	Dr. P.Saravanan	Nucleos Hazarde Solid waste marganet	25/6/21	180
		I ME	СН		
SUB	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Mr.P.Raajeshwarn	coloca of met	2619131	897
MA825	Engineering Mathematics	- Dr.G.Sankarakalidos s	Caryley Havis for	26.6.21	4
PH825	Materials Science	Mr.S.Ambalatharau	Fracture-Gridation Criterion.	29/06/21.	Sup
BE8253	Basic Electrical, Electronics and Instrumentation Engineering Mr.R.Thandayuthap ani		Transformer.	26/06/21.	000
GE8291	Environmental Science an Engineering	d Dr.P.Saravanan	Solt of warres	29/6/21	18
GE8292	Engineering Mechanics	Mr.M.Aswin	Lami's Theorem	24/6/21	Art

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DEPARTMENT OF SCIENCE AND HUMANITIES NPTEL SESSION EXCECUTION STATUS ACADEMIC YEAR 2020-21(ODD)

			CIVIL	*	
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mrs.C.Jansirani	Aspiras Sandald	7.12.20	coloresta
MA8151	Engineering Mathematics-I	Dr.G. Ramya Arockia Mary	Volume of Solids	9.12.20	G. fung
PH8151	Engineering Physics	Mr.S.Ambalatharasu	Elostruty - Stress - Strom Drogram.	8-12-20	Suf
CY8151	Engineering Chemistry	Dr.S.Udhayakumar	Light water Poplat	8/12/20	June
GE8151	Problem Solving And Python Programming	Mrs.R.Ranitha	Selectionsort	9-12-20	Reiss
GE8152	Engineering Graphics	Mr. \$.Aswin	cycloids & envolutes	9/12/20	Arr
			CSE		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mr.K.Anandharaj	Oriving a prope	9.12.20	Je Droubt
MA8151	Engineering Mathematics-I	Mrs.S.Geetha	Volum o to lid		Julto
PH8151	Engineering Physics	Mrs.S.Anuratha	Elasticity, Strees Strain dragram	9/12/20	seve
CY8151	Engineering Chemistry	Dr.S.Udhayakumar	Solow cell	15/12/20	Sun
GE8151	Problem Solving And Python Programming	Mr.M,Arun	Selethonort	8/12/20	6 Jamin
GE8152	Engineering Graphics	Mr.M.Aswin	Cycloids & convolutes	16/12/20	· A

			-	
	ECE			
SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
Communicative English	Mr.P.Rajeshwaran	Shirt A aread	V7-12-20	5300
Engineering Mathematics-I	Mr.G.Jeyakrishnan	Volume offices	17.12.20	(SP)
Engineering Physics	Mr.S.Ambalatharasu	Elaskuly- Spers-Trom	15/12/20	Amil .
Engineering Chemistry	Dr.P.Saravanan	Light water	23/12/20	0
Problem Solving And Python Programming	Mrs.R.Suganthalakshmi	Glichens et 1	30.1.21	Sort
Engineering Graphics	Mr.M.Aswin	Cycloids +	18/12/20	Ase of
	EE			
SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
Communicative English	Mr.P.Rajeshwaran	action of sold	1917-12-2	e 6077
Engineering Mathematics-I	Mrs.S,Revathi	Volume of Solids	15.12.200	os. Due
Engineering Physics	Mrs.S.Anuratha	Elacticity Struss, Strong		8ccul
Engineering Chemistry	Dr.P.Saravanan	power plaint	. 28/12/20	5 8
Problem Solving And Python Programming	Mrs.G.Chandraprabha	Inearly on Marga	e 22/1/21	ace
Engineering Graphics	Mr.N.Agilan	cycloids & mvelutes	18/12/20	A P. P.
	MI	ЕСН		
SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SILNATIIRI
Communicative English	n Mr.K.Anandharaj	MERICAN EXTRA	16 d.15.	20 4. Namm
Engineering Mathematics-I	Dr.G.Shankarakalido	1	9.12.2	. 7
Engineering Physics	Mr.S.Ambalatharası	Stan Diagram	8 11212	o Sup
Engineering Chemistry	Dr.V.SureshKumar	rule pour ple	mt 4/12/2	to leg
Problem Solving And Python Programming	Mr.R.Sriramkumar		t 8/12/2	o por
Engineering Graphics	Mr.S.Karthi	Cycloids to	11/2/2	- for
	Communicative English Engineering Mathematics-I Engineering Physics Engineering Chemistry Problem Solving And Python Programming Engineering Graphics SUB NAME Communicative English Engineering Mathematics-I Engineering Physics Engineering Chemistry Problem Solving And Python Programming Engineering Graphics SUB NAME Communicative English Engineering Chemistry Problem Solving And Python Programming Engineering Graphics SUB NAME Communicative English Engineering Chemistry Problem Solving And Python Programming	SUB NAME Communicative English Engineering Mathematics-I Engineering Physics Engineering Chemistry Problem Solving And Python Programming Engineering Mr.P.Rajeshwaran Engineering Graphics SUB NAME STAFF NAME Communicative English Engineering Physics Engineering Mrs.S,Revathi Engineering Physics Engineering Mrs.S,Revathi Engineering Physics Engineering Physics Engineering Chemistry Problem Solving And Python Programming Engineering Graphics Mrs.G.Chandraprabha Engineering Graphics Mr.N.Agilan Mrs.G.Chandraprabha Problem Solving And Python Programming Engineering Graphics Mr.N.Agilan Mrs.G.Chandraprabha Engineering Graphics Mr.N.Agilan Mr.N.Agilan Mr.R.Anandharaj Engineering Mathematics-I Engineering Physics Mr.S.Ambalatharasi Engineering Chemistry Dr.V.SureshKumar Problem Solving And Python Programming Mr.R.Sriramkumar	Communicative English Engineering Mr.G.Jeyakrishnan Engineering Physics Engineering Chemistry Problem Solving And Python Programming Engineering Mr.B.Rajeshwaran Engineering Graphics Engineering Graphics EEE SUB NAME STAFF NAME STAFF NAME NPTEL TOPIC Communicative English Engineering Physics Engineering Chemistry Problem Solving And Python Programming Engineering Graphics Mr.S.G.Chandraprabha Engineering Graphics Mr.M.Agilan Mr.M.Agilan Mr.M.Agilan Mr.M.Agilan Mr.M.Agilan Mr.M.Agilan Mr.M.Agilan MECH SUB NAME STAFF NAME NPTEL TOPIC SUB NAME SUB NAME NPTEL TOPIC SUB NAME SUB NAME NPTEL TOPIC SUB NAME NAME NPTEL TOPIC SUB NAME NAME NAME NAME NAME NAME NAME N	SUB NAME STAFF NAME NPTEL TOPIC EXCECUTION Communicative English Engineering Physics Mr.S.Ambalatharasu Engineering Chemistry Problem Solving And Python Programming Engineering Graphics Engineering Mr.P.Rajeshwaran Engineering Graphics SUB NAME STAFF NAME Mr.P.Rajeshwaran STAFF NAME STAFF NAME Engineering Physics Engineering Physics EEE SUB NAME STAFF NAME NPTEL TOPIC EXECCUTION Arr.P.Rajeshwaran Engineering Physics Engineering Physics Engineering Chemistry Problem Solving And Python Programming Dr.P.Saravanan Mr.A.Agilan Mr.A.Agilan Mr.A.Agilan Mr.A.Agilan Mr.A.Ambalatharasu Engineering Chemistry Dr.C.S.Annkarakalido STAFF NAME NPTEL TOPIC EXECCUTION Arr.A. Lagrage Arr.A.

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ACADEMIC YEAR 2019-2020



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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2019-2020 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: CIVIL

		II yr CIVIL			
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA8491	Numerical Methods	Unit I Poisson & Ego	3.5.20	Ms.S.Geetha	Gutto
CE8401	Construction Techniques & Practices	Pipe Facking - Unit 3	27.01.20	Mr.S.R.Elwin Guru Chanth	88
CE8402	Strength of Materials II	Euleis whem they Unit-I	22/1/20	Ms.K.Jeyashankari	ag y Oran
CE8403	Applied Hydraulic Engineering	Francis turbine	18/2/20	Ms.V.Iswarya	18
CE8404	Concrete Technology	BIS method vine	4.2.20	Ms.K.Bhavarohini	Row
CE8491	Soil Mechanics	Unit-3	31.1.20	Ms.M.Priya	M. Plan
		III yr CIVIL			0 -
CE8601	Design of Steel Structural Elements	Slenderness Ratio	21.2.20	Ms.M.Priya	M. 28
CE8602	Structural Analysis II	plastic hinge and machanism (UNIT-I)	3/1/20	Ms.T.Bhuvaneswari	Att >
CE8603	Irrigation Engineering	gravity daising	25/1/2-	Mr.K.Ranjith	1 Datish
CE8604	Highway Engineering	site distance	11/1/20	Ms.K.Jeyashankari	Jegg 12
EN8592	Wastewater Engineering	Disposed mothers -	14/2/20	Ms.V.Iswarya	18
CE8005	Air pollution & Control Engineering	Control & Preventix measures of noise pollute Unit-	11/3/2020	Mr.R.Sundharam	B
		IV yr CIVIL			
MA6851	Principles of Management	Creatively and Innovation	191212	Mr.B.Barankumar	2. Len
CE6016	Prefabricated Structures	Types and concepts of Present System - UNIT-SI	01/01/2020	Mr.K.Arun	WED ON
CE6021	Repair & Rehabilitation of Structures	Shoring	19/02/2020	Ms.R.Revathi	000

IQAC MEMBER (K.ARUN)

J. 1001 16/3/ 2018

HOD/CIVIL (Ms.R.REVATHI)

PRINCIPAL (Dr.J.ARPUTHA VIJAYA SELVI)







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2019-2020 / ODD SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: CIVIL

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA8353	Transforms and Partial Differential Equations	equations and Heart epos.	247.19	Dr.G.Shankarakalidoss	(PG
CE8301	Strength of Materials I	Hillihad beam Unit-2	17.7.19	Ms.K.Jeyashankari	Jyg13.31
CE8302	Fluid Mechanics	Drog and lift (WM. I)	28.8.19	Ms.T.Bhuvaneswari	A4/2/12
CE8351	Surveying	Tacheometric Surveying	10.7.19	Mr.S.Kamaraj	22/18/9
CE8391	Construction Materials	Batching Parts-unity	1	Ms.K.Bhavarohini	(M)
CE8392	Engineering Geology	classification of rocks	23.41	Mr.M.Mohamed Ilyas	Offin
		CLASS: III CIVIL			A
CE8501	Design of Reinforced Concrete elements	Jyonay Jlab	26.7.19	Mr.K.Ranjith	(C) 26.7 K
CE8502	Structural Analysis I	Analysis of continuous Beam SDM CONTI-E	5/2/2019	Ms.T.Bhuvaneswari	Ostat n
EN8491	Water Supply Engineering	Sand filter, um 3	07.08.19	Mr.S.R.Elwin Guru Chanth	D.
CE8591	Foundation Engineering	Capacity for in-sola-test	13.08.19	Ms.V.Ishwarya	13.08.19
OAI551	Environment and Agriculture	Colobal warming.	24.7.19.	Mr.M.Mohamed Ilyas	Clylon
GI8014	Geographic Information System	Data Model - Unit -2	12/7/19	Ms.M.Priya	N. Dige
		CLASS: IV CIVIL			
Sub	Subject name	NPTEL session topic & Unit	Date of	Staff Name	Staff
code	0	mapped to	execution	,	Signature
code CE6701		mapped to UNTITE Element of Enemand Scienley		Mr.K.Arun	Signature
		UNIT-THE Elements of Engineery Scientlyy UNUT-THE DESGN of anchorage Zone,	17/7/19	Mr.K.Arun Ms.R.Revathí	Signature
CE6701	SDEE Prestressed Concrete	Unit-II Element of Engineery Scienlyy Unit-II Desyn of anchorage Zone Duty-Defta and Base Danie Unit 2	241719	Ms.R.Revathi Ms.K.Bhavarohini	Signature
CE6701 CE6702	SDEE Prestressed Concrete Structures Water Resources and Irrigation Engineering	Unit-III Element of Engineery Scienleyy Unit-III Design of anchorage Zone Duty-De Ha and Balle Dorse Unit-2 Estimating of Joak pit	241719	Ms.R.Revathi	Signature V
CE6701 CE6702 CE6703	SDEE Prestressed Concrete Structures Water Resources and Irrigation Engineering Estimation and	Unit-III Element of Engineering Scienleyy Unit-III Design of anchorage Zone Duty-Defta and Bale Derive Unit 2 Estimating of Joan pit Unit. 2 Building Byelaws and Pales & development	17 7 19 24 17 19 24.7.19 09.07.19	Ms.R.Revathi Ms.K.Bhavarohini Mr.S.R.Elwin Guru	Signature V Safe Signature
CE6701 CE6702 CE6703 CE6704	SDEE Prestressed Concrete Structures Water Resources and Irrigation Engineering Estimation and Quantity Surveying Housing Planning and Management Croundwater	UNIT-IN Element of Engineery Schmolyy UNIT-IN DESYN of Duty-Defta and Bale Danie Unit -2 Estimating of Joak pit	17.7.19	Ms.R.Revathi Ms.K.Bhavarohini Mr.S.R.Elwin Guru Chanth	O SAF

HOD/CIVIL

PRINCIPAL







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2019-20 (Even Sem) NPTEL SESSION EXECUTION STATUS

DEPT: CSE

Sub.code & Sub.Name YEAR : SEM : SEC: II	session topic & Unit mapped to	Date of execution	Staff incharge	Signature
MA8402 - Probability & Queuing Theory	Single & Multiple Servir nenemy mudels - Little Limber Gus	10 0 0 10	Dr.R.Suresh	1 300
CS8491 - Computer Architecture	Memory	10/2/20	Ms.P.Nalayini	PMy
CS8492 - Database Management Systems	Object band DB's, ODL	10/2/20	Ms.R.Suganthalakshmi	Good
CS8451 - Design & Analysis of Algorithm	Stable Marriagna Producar	9/2/20	Mr.M.Arun	Co Mari
CS8493 - Operating Systems	Des process	11/2	Ms.K.Abhirami	Kidley
CS8494 - Software Engineering	Gost Extimati	13/2/20	Dr.D.Sivakumar	Show
YEAR : SEM : SEC:II	I/VI			
CS8651 - Internet Programming	Animation	18.2.20	Ms.R.Ranitha	Riv
CS8691 - Artificial Intelligence	Constaint Satistaction Problems	14.2.20	Ms.S.Puvaneswari	S. Ru
CS8601 - Mobile Computing	cellular System	14.2.20	Dr.S.M.Uma	55
CS8602 - Compiler Design	Stack Allocation Space	13.2.20	Ms.G.Chandraprabha	G.C.
CS8603 - Distributed Systems	Tissue in tailure recovery	18.2.20	Ms.B.Sangeetha	Bush
IT8076 - Software Testing	Adhoc teshing Alpha Beta testing	19-2-20	Mr.K.Rajesh	KRajsh

YEAR : SEM : SEC: IV	/ VIII			
CS6801 - Multicore architectures and programming	MPI- Derive DT	24-2-60	Ms.P.Nalayini	P. My
IT6011 - Knowledge management	Peaison Suppost Systems	21.2.20	Mr.S.Rajarajan	女士
MG6088 - Software Project Management	R95K Zvoluation		Mr.R.Sriramkumar	Georgia

10.00 Member

F 25/2/20







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2019-20 (Odd Sem)

NPTEL SESSION EXECUTION STATUS

DEPT: CSE

Sub.code & Sub.Name	NPTEL session topic & Unit mapped to	Date of execution	Staff incharge	Signature
YEAR : SEM : SEC: II/ IV		44		
MA8351- Discrete Mathematics	Rules of interence Rings & Fields	14-8-19	Ms.S.Geetha	Conthe
CS8351- Digital Principles and System Design	Latches & Flipflops	13-8-19	Mr.S.Rajarajan	MX
CS8391- Data Structures	Tree traversals. Expression tree	23/7/19	Ms.K.Abhirami	Kollu
CS8392 - Object Oriented Programming	Exceptions- Hierarchy	16/8/19	Dr.D.Sivakumar	Dar
EC8395 - Communication Engineering	VSB-PSD-Modulahr 9 demodulators	18/8/19	Mr.T.Jeyaseelan	J. V.
YEAR: SEM: SEC:III/VI				
MA8551 - Algebra and Number Theory	Fermat's little	13.9.19	Mr.G.Jeyakrishna n	GR.
CS8591 - Computer Networks	SNMP	19.4.19	Mr.K.Rajesh	KRONS
EC8691 - Microprocessor & Microcontroller	Auchitecture of Bos. Micho Controlles, Special Function Register (SFRS)	21.8.19	Dr.S.M.Uma	SJ
CS8501 - Theory of Computation	Equivalence of Pushdown Aubmahn Sy CFC1	23.8.19	Ms.S.Puvaneswai i	SJ. Ru
CS8592 - Object Oriented Analysis & Design	Aggregation q Composition	19.7.19	Ms.R.Ranitha	R.a.
OMF551 - Product Design and Development	Cake other on value strongmency	13.9.19	Ms.R.Suganthala kshmi	824

YEAR : SEM : SEC: IV / VII	I			Avenue
CS6701 - Cryptography and Network Security	Luthentication Function	5/9/19	Dr.D.Sivakumar	Shu
CS6702 - Graph Theory and Applications	Tree Properties	6/9/19	Dr.R.Suresh	1 mm
CS6703 - Grid and Cloud Computing	Command line 9 Java Exterface	26.8.19	Ms.B.Sangeetha	807
CS6704 - Resource Management Techniques	Kuhn-Tudeov Conditions	5.9.19	Dr.G.Shankara Kalidoss	F
CS6004 - Cyber Forensics	Network Forensics	5.9.19	Mr.R.Sriramkum ar	digue
CS6007- Information Retrieval	1R Versus	19/19	Ms.P.Nalayini	Pully



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INTERNAL QUALITY ASSURANCE CELL

ACADEMIC YEAR 2019-2020 / EVEN SEMESTER

NPTEL SESSION EXECUTION STATUS

DEPARTMENT: ECE

CLASS: II ECE /4th sem

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA8451	Probability and Random Processes	Unit – 1 Discrete and continuous random variables.	19.12.19	Mr.G.Jeyakrishnan	5
EC8452	Electronic Circuits II	Unit – 2 Oscillator amplitude stabilization	24,1.20	Mrs.U.Jeyamalar	Q-
EC8491	Communication Theory	Unit – 1 DSBSC, SSB, VSB	19.12.19	Mr.S.Ramarajan	8-1.
EC8451	Electromagnetic Fields	Unit – 5 Group velocity, EM power flow and pointing vector	11.3.20	Mrs.P.Thirumagal	p. orl.
EC8453	Linear Integrated Circuits	Unit – 2 Logarithmic and Antilogarithmic amplifier.	13/1/20	Mr.A.Herald	(1.16) J
GE8291	Environmental science and Engineering	Unit – 1 Aquatic Eco systems Unit – 2 Nuclear hazards – soil waste management.	29.01.20	Dr.V.Sureshkumar	4

CLASS: III ECE/6th sem

EC8691	Microprocessors and Microcontrollers	Unit – 5 ADC and DAC Interfacing	06/03/20	Mr.P.Rajapirian	Ph
EC8095	VLSI Design	Unit – 4 Arithmetic building blocks: Data paths, Adders	20.2.20	Mr. T. Jeyaseelan	of-
EC8652	Wireless Communication	Unit - 5 MIMO Systems	24/2/20	Mr.R.Sathyaraj	KIME
MG8591	Principles of Management	Unit – 1 Evolution of Management Unit – 5 Budgetary and non budgetary control techniques.	08-01-20	Mr.B.Barankumar	P.Sm.

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
EC8651	Transmission Lines and RF Systems	Unit -4 TM and TE waves in circular waveguides	26.2.20	Mr.R.Balakrishnan	Ph 2012
	Multimedia Compression and Communication	Unit – 5 Media levity, Media synchronization, Models for temporal specifications	02/03/200	Mrs.N.Mangaiyarkarasi	2/7/202

CLASS: IV ECE /8th sem

	· ·				
EC6801	Wireless Communication	Unit - 5 MIMO systems	2.3.20	Mrs.R.Ponni	Mi
EC6802	Wireless networks	Unit – 2 Mobile IP session initiation protocol	29-01-20	Dr.T.Shanthi	964
EC6018	Multimedia Compression and Communication	Unit – 4 CODEC methods Unit- 5 Streamed stored and audio- making the best effort service	25/2120	Mr.R.Thandayuthapani	Stop
EC6019	Data Converters	IInit - 1 & 5	6-01-20 5-03-20	Mrs.D.Vennila	O Ventino

IQAC Member (D.Vennila)

J. 15/3/2020

HOD / ECE







INTERNAL QUALITY ASSURANCE CELL

ACADEMIC YEAR 2019-2020 / ODD SEMESTER

NPTEL SESSION EXECUTION STATUS

DEPARTMENT: ECE

CLASS: II ECE /3rd sem

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signatur
MA8352	Linear Algebra and Partial Differential Equations	differential equations Unit-2	12.7.19	Mrs.S.Revathi	S. Due
EC8393	Fundamentals of Data Structures In C	Unit – 5 Bubble sort and Insertion Sort	4.9.19	Mrs.G.Chandra prabha	acc
EC8351	Electronic Circuits- I	Unit – 5 Power supply performance and testing	13.9.19	Mr.S.Sivakumar	Bres
EC8352	Signals and Systems	Unit – 1 Linear & Non linear Time variant & Time invariant Causal &Non causal Stable & Unstable	03-07-19	Mr.T.Pasupathi	1. Secture
RC8392	Digital Electronics	Unit – 3 Flip-flops- SR, JK,D,T and master slave operation and excitation tables	29.7.19	Mr.A.Herald	B.18
FG8391	Control Systems Engineering	Unit – 1 Analytical design for PD, PI and PID control systems	19.7.19	Mrs.U.Jeyamalar	Q

CLASS: III ECE/ 5th sem

EC8501	Digital Communication	Unit-5 Hamming codes	3/9/19	Mrs.R.Ponni	ly_
SC8553	Discrete-Time Signal Processing	Unit-2 Impulse invariance method, Bilinear transformation	23/7/19	Mr.R.Balakrishnan	8 3

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
EC8552	Computer Architecture and Organization	Unit-1 Addressing and addressing modes	01.07.19	Mr.R.Sathyaraj	Br.Z.
EC8551	Communication Networks	Unit-2 IPV4 address	29/7/19	Mr.P.Rajapirian	He
EC8073	Medical Electronics	Unit-1 Sources of bio medical signals, Bio potentials, Biopotential electrodes	25.06.19	Mr.S.Ramarajan	35
OR0551	Renewable Energy Source	Unit – å Flat plate collector	13.7.19	Mrs.N.Mangaiyarkaras	i du =0000
. 0	2	CLASS: IV ECE /7	^{7th} sem		
EC6701	RF and Microwave Engineering	Unit-5 Spectrum analyzer, Network analyzer	22.8.19	Mr.R.Thandayuthapani	18/20
FC6702	Optical Communication and Networks	Unit-1 Mode theory of circular wave guides	27.6.19	Mr.K.Sudarsanan	Do
EC6703	Embedded and Real Time Systems	Example of real time operating systems- POSIX-Windows CE	2/8/19	Dr.T.Shanthi	100
EC6004	Satellite Communication	Unit-2 Space craft technology- structure, primary power. Unit-5 INTELSAT Series, INSAT, VSAT	21/08/19	Mr.W.Newton David Raj	Windaws
EC6011	Electro Magnetic Interference and Compatibility	Unit-2 Ground loop coupling Unit-3 Choice of materials for H,E and free space solids	07.9	Mrs,P,Thirumagal	27/
EC6016	Opto Electronic Devices	Unit-1 Review of solid state physics	28.6.19	Mrs.D.Vennila	D. Tembro

IQAC Member (D.Vennila) J. 10/10/2019

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KINGS COLLEGE OF ENGINEERING DEPARTMENT OF EEE ACADEMIC YEAR 2019-20 EVEN

Sub Code /	Name of the	NPTEL session topic	Date of	Faculty Sign
Name	Faculty		Execution	
1948AM	Dr. Gr. Stankar kalidoss	RD-Poisson's equations on sectongular domain-5	8.1.20	4
EW-1	Mr. C. Jahn	Tududisis Motor - TV	6 3 2020	mj.c
EE8402 Ted			13.01.20	Du: 30 20 10
EES403 MAI	Mr.s saktherel	Stalie / Dynamie	17/12/19	5. Sug
EE8401	Mr.k. sadharsan	Summer of Differentiate	13/1/2020	deni
108451	Mr.S.R. Karthikuya	registron between transfer unit-til	4.2.202	5 J. Kein
EE8601 SSD	Mr.R. Sundasamout	tour aucid out opening Convertile choproported	201012020	Puparking
EE 8602 DSG	Dr.A. Albert Martin	Over current re lays	14.01.2020	d dam
EE8691 ES	Dr. M. Mæralochan?	Sexual bies comminioning	8.1.20	cel conc
DEA	Dr & Bivakumou	supput equation of 3 p + transformer uniting	11/1/20	tobe
EE8005 SEM	Mr.J. Arokiaraj	Drive circuits	22/1/20	668
		Classification of Ugort		
EGIUC		Sources Incarderant lamp	91.20	2007
PE 6009 PE RES	Mr. C. John salvaray		5.3.20	oy.c
GIEB757 TRM	Mr.B. sureshBabu	FMEA	6/3/20	B. Sm
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KINGS COLLEGE OF ENGINEERING DEPARTMENT OF EEE ACADEMIC YEAR 2019-20 ODD

Sub Code /	Name of the	NPTEL session topic	Date of	Faculty Sign
Name	Faculty		Execution	
MA8353 TPDE	Mrs. N. Latta	10 equation of heat unit-3	1.7-19	Med
E8351	Mrs. D. Vennila	Somential legiz	07.08.19	O. Venturo
EE8391 EMT	Mr.s.sakthivel	Grauss law & applicationy - unit - ?	01.07.19	5. gut
EE8301 EM-J	Mr. C. Johnselvaro		25.7.19	my-c
EC8353	Mr. 12 Rajapirian	MOSFET -II	2/8/2019	Ph
ME8792 PPE	Mr.S.R.Karthikeya	Diesel poor	9/7/2019	5.7,00
EE8501 PSA	Dr.s.sivakuman	Network Proph - Unit-I	117/19	+ Bba
EE8551 MPIMC	Mrs. N. Arulmozhi	unit -111	1 8 2019	Mr. Som Mone
EE8552 PF	Mr.J. Arokiaraj	PWM - TECHINIQUES - UN IT- TV	22/8/19	ton
EE8591 DSP	Mr. R. Balakrish	FILTERS unit-IV	26/8/19	25
C58392 OORS	Mrs B. sangeotha	Exceptions hierarchy	7.8.19	100
OMD 551 BBMI	Mr.C.Johnselvara		19.7.19	out.c
EE6701 HVE	Mr. C. Balajî	Insulation Co-adenat	30.8.19	ef
EE6702 PSGEG	Dr.A.Albert Martin Ruban	cT, over current unit-2)	9.7.19	at them
EE6703 SEM	Mrs. N. Rajesconii	Driver circults	2.7.19	om
MGB851 POM	Mr. B. Gwesh Bab	Budgetany control	30/07/10	B. Ch
E16764 BMI	Mr. R. Sundana.	According methods	1 1 -	Rudur
EE6008	Mrs.M. Meenoloch	an ARM Architecteur	31.7.19	(CQ.CQ)
	·			,
	<u> </u>		N N.	

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2019-2020 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: MECHANICAL

CLASS: II MECH

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
MA8452	Statistics and Numerical Methods	Dr. G. Shankara Kalidoss	Taylor's series	6.1.20	01. 8hand
ME8492	Kinematics of Machinery	Mr. M.Melwin J Sridhar	Types of cam	20. 1. 20	4/3/8-
ME8451	Manufacturing Technology - II	Mr.S.Desikan	Gear cutting terminology	7.2.20	SDI
ME8491	Engineering Metallurgy	Mr. J.Rajaparthiban	Fatigue test	M 2 A D1	Bund
CE8395	Strength of Materials for Mechanical Engineers	Mr. S.Sabanayagam	Principle stess	20. 2.20	Sof
ME8493	Thermal Engineering- I	Mr. B.Adhichelvan	IC engine cooling system	5. 2.20	B.An

CLASS: III MECH A

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME8651	Design of Transmission Systems	Mr. J.Rajaparthiban	Design of cone clutches	7.1.20	gran
ME8691	Computer Aided Design and Manufacturing	Mr. S.Sabanayagam	AUTOCAD animation	4.2.20	SI
ME8693	Heat and Mass Transfer	Mr. H.Agilan	2D heat transfer	17.2.20	K
ME8692	Finite Element Analysis	Dr.P.P.Shantharaman	Jacobian co ordinates	22.1.20	1.00
ME8694	Hydraulics and Pneumatics	Mr. S.Karthi	Hydraulic circuits	6.2.20	8pm-
ME8091	Automobile Engineering (E)	Mr. R.Shankar	Types of chasis	20. 2. 20	Reful

CLASS: III MECH B

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME8651	Design of Transmission Systems	Mr.S.Desikan	Design of brakes	17.2.20	SDi
ME8691	Computer Aided Design and Manufacturing	Mr. S.Karthi	AUTOCAD animation	8.1.20	granil
ME8693	Heat and Mass Transfer	Mr. H.Agilan	2D fins	7.2.20	A.
ME8692	Finite Element Analysis	Dr.P.P.Shantharaman	Gaussian iterations	23.1.20	0.0
ME8694	Hydraulics and Pneumatics	Mr. M.Sakthivel	Introduction to Pneumatics	19. 2.20	Proper
ME8091	Automobile Engineering (E)	Mr. B.Ram Vignesh	Automobile body types	8.2.20	hu

CLASS: IV MECH A

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
MG6863	Engineering Economics	Mr. K. Sudhakar	Statistics tables usage	18.2.20	K. Sunj
IE6605	Production Planning and Control (E)	Mr. N. Magesh	Heisler charts	9.1.20	599
ME6016	Advanced I.C. Engines (E)	Mr. B. Adhichelvan	Fuel system	24. 1. 20	B. Au

CLASS: IV MECH B

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
MG6863	Engineering Economics	Mr. K. Sudhakar	Statistics tables usage	19. 2. 20	K. Sun
1E6605	Production Planning and Control (E)	Mr. V.Vijayakumar	Break event analysis	25.1.20	191 mz
ME6016	Advanced I.C. Engines (E)	Dr.T.Pushparaj	Firing order of an engine	10.1.20	T. Pommi

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2019-2020 / ODD SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: MECHANICAL

CLASS: II MECH

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
MA8353	Transforms and Partial Differential Eqns	Mr.G.Jeyakrishanan	Discrete Mathematics	23.8.19	BA
ME8391	Engineering Thermodynamics	Mr.B.Ram Vignesh	First law of thermodynamics	16.7.19	de
CE8394	Fluid Mechanics and machinery	Mr.M.Melwin	Centrifugal pump	16.9.19	77
ME8351	Manufacturing Technology-1	Mr.S.Karthi	Investment casting	17.7.19	8jani
EE8353	Electrical Drives and Controls	Mr.S.Sakthivel	Electrical generators	18.9.19	سلملى.و

CLASS: III MECH

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME8595	Thermal Engineering II	Mr.H.Agilan	Boilers & Mountings	22.7.19	K
ME8593	Design Of Machine Elements	Mr.J.Rajaparthiban	Factors influencing Machine design	24.7.19	Jan-
ME8501	Metrology & Measurements	Mr.S.Sabanayagam	Angular measurement	6.8.19	for
ME8594	Dynamics Of Machines	Mr.R.Shankar	Forced vibrations	12. 8.19	RShul
OAT552	Internal Combustion Engines	Mr.P.P.Shantharaman	Engine auxiliaries	8.8.19	r.72

CLASS: IV MECH A

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME6701	Power Plant Engineering	Mr.P.P.Shantharaman	Steam power plant	22/7/19	0.01
ME6702	Mechatronics	Mr.S.Sabanayagam	Sensors & Transducers	13/8/19	for

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME6703	Computer Integrated Manufacturing Systems	Mr.B.Ram Vignesh	JIT - An introduction	11.9. 19	912
GE6757	Total Quality Management	Mr.K.Sudhakar	FMEA & its types	24.7.19	4. Buy
ME6005	Process Planning	Mr.N.Magesh	Estimation of jobs	16.8.19	2007
ME6012	Maintenance Engineering	Dr.T.Pushparaj	Maintenance economics	9.9.19	T. Ponha

CLASS: IV MECH B

SUBJ CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	NPTEL TOPIC	DATE OF EXECUTION	SIGNATURE
ME6701	Power Plant Engineering	Mr.H.Agilan	Steam power plant	23.7.19	X.
ME6702	Mechatronics	Mr.M.Aswin	Sensors & Transducers	14.8.19	1
ME6703	Computer Integrated Manufacturing Systems	Mr.V.Vijayakumar	JIT - An introduction	10.9.19	gnz
GE6757	Total Quality Management	Mr.B.Baran Kumar	FMEA & its types	22.7.19	B-Bor
ME6005	Process Planning & Cost Estimation	Mr.S.Karthi	Estimation of jobs		Spin-
ME6012	Maintenance Engineering	Mr.J.Rajaparthiban	Maintenance economics	10.9.19	Jen 1

IQAC Member

HOD/MECH

DEPARTMENT OF SCIENCE AND HUMANITIES NPTEL SESSION EXCECUTION STATUS ACADEMIC YEAR 2019-20(EVEN)

			I CIVIL		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Mr.K.Anandharaj	gran paraneos moras	925-0420	K. Ag
MA8251	Engineering Mathematics –	Mr.G.Jeyakrishnan	Diogonalization of Matrices	23.1.20	6
PH8201	Physics for Civil Engineering	Mrs. R.Umamaheswari	child viater plant	24.1.0	Relling
BE8251	Basic Electrical and Electronics Engineering	Mrs.P.Thirumahal	Kircheff's urrent law and voltage law	18.1,20	bus
GE8291	Environmental Science and Engineering	Dr.S.Udayakumar	Agmantic ecosysty Solid waste marrogery	gul ham	Ann
GE8292	Engineering Mechanics	Mr. S.R. Elwin Guru Chanth	Force in 3-D	13.1.20	Spelly
			I CSE		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Dr.,R.Senguttuvan	sequence sords emissible word	25.01.20	and of
MA8251	Engineering Mathematics – II	Dr.G.Ramya Arokia Mary	Diagonalization of Matrices	20.1.20	any
PH8252	Physics for Information Science	Mrs.S.Anuradha	Themal conductivis wesdering France	115-9-00	Bun
BE8255	Basic Electrical, Electronics and Measurement Engineering	Mr.W. Newton David Raj	Kirchaffs taw	24.1.20	MANeuton
GE8291	Environmental Science and Engineering	Dr. P.Saravanan	Agnatic Ecosystem Solid waste may	24/1/202	28
CS8251	Programming in C	Mrs.G.Chandra Praba	Pointers, Pointer.	24101	X

ring atics – II for Electronics ring extrical and entation ring malysis ic Devices IB NAME Il English ring etics – II for Electronics ring etics – II for Electronics ring etics – II for Electronics ring ril and cal ring	Mr.K.Anandharaj Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	Diagonalization of Matrices Sombrowice Three phare from for more Theyenish's & Norton's theorem what your q EEE NPTEL TOPIC Sognalization of Matrices Sprittonics. Fire tube & Water tube Boilers	25.0\20 30.0\.2020 12.2.2020 14.22020 12.2.20 DATE OF EXCECUTION	8. Du greeg
atics – II for Electronics ring extrical and entation ring malysis ic Devices IB NAME Il English ring ettics – II for Electronics ring ril and cal	Mr.S.Ambalatharasu Mr.S.Sivakumar Mr.T.Pasupathi Mr.W. Newton David Raj I H STAFF NAME Mr.K.Anandharaj Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	Sportronics Sportronics Three phase Trems for mors Thevenish's & Norton's theorem wednesday Theorem went only Sequence with Diagonalization of Matrices Sportronics. Fire tube & Water tube	12. 2. 2020 14. 2.2020 22-01-2020 12. 2. 20 DATE OF EXCECUTION 25-01-25 30.01.2020	Ine ex Tiportor
ring rectrical and rentation ring malysis ic Devices B NAME al English ring ring ring ring ring ring ring ring	Mr.S.Sivakumar Mr.T.Pasupathi Mr.W. Newton David Raj I H STAFF NAME Mr.K.Anandharaj Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	Three phase Trems for mors Thevenin's & Norton's theorem Wedney 4 EEE NPTEL TOPIC Sequence us to miss polled work Diagonalization of Matrices Sprittonius, Fire tube & Water tube	14.22010 22-01-2020 12.2.20 DATE OF EXCECUTION 25-01-25 30.01.2020	Ine co
entation ring nalysis ic Devices B NAME al English ring ntics – Il for Electronics ring ril and cal	Mr.T.Pasupathi Mr.W. Newton David Raj I H STAFF NAME Mr.K.Anandharaj Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	Norton's theorem Curdutory 4 EEE NPTEL TOPIC Sequence up to Nice generalization Of Matrices Sportronics. Fire tube 2 Water tube	22-01-2020 12-2-20 DATE OF EXCECUTION 25-01-20 30-01-2020 13-2-2020	TiPortal MANOWED
IB NAME Il English Or Electronics ring or Electronics ring ril and cal	Mr.W. Newton David Raj I H STAFF NAME Mr.K.Anandharaj Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	Norton's theorem Curdutory 4 EEE NPTEL TOPIC Sequence up to Nice generalization Of Matrices Sportronics. Fire tube 2 Water tube	DATE OF EXCECUTION 25-51-25 30.01.2020	KINEWIN
B NAME al English ring ntics – Il for Electronics ring ril and cal	STAFF NAME Mr.K.Anandharaj Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	EEE NPTEL TOPIC Sequence with the sequence of Matrices Sprittonics. Fire tube & Water tube	DATE OF EXCECUTION 25-51-25 30.01.2020	KINEWIN
of English or Electronics ring of and cal	Mr.K.Anandharaj Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	NPTEL TOPIC Soquer quotes missecolid units Diagonalization of Matrices Spontronius. Fire tube 2 Water tube	25-8/-25 30.01.2020	SIGNATURE 14-14-0- 8-Dal
of English or Electronics ring of and cal	Mr.K.Anandharaj Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	Soquence up 18 misspelled with Diagonalization Of Matrices Sprittonics. Fire tube 2 Water tube	25-8/-25 30.01.2020	SIGNATURE 14-14-0- 8-Dal
ring ntics – II for Electronics ring ril and cal	Mrs.S.Revathi Mr.S.Ambalatharasu Mr.M.Aswin	Diagonalization of Matrices Sprittonius. Fire tube 2 Water tube	30.01.2020	S. Due
or Electronics ring ril and cal	Mr.S.Ambalatharasu Mr.M.Aswin	Diagonalization of Matrices Sprintronius. Fire tube 2 Water tube	30.01.2020	S. Dre
ring ril and cal	Mr.M.Aswin	Spritronius. Five tube 2 Water tube		Sup.
cal		Water tube	12.2.2020	100
			the second secon	
heory	Mrs.N.Arulmozhi	Morgan Hear	11.2.20	AndMal
nental Science ing	Dr. P.Saravanan	Aquatic ecosysty solid waste monger	25.1.2020	Phone
	IM	ЕСН		1
UB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
l English	Mr.P.Rajeshwarn	soquence missported world	2501+20	397
ing Mathematics	- Mrs. T.Gnanajeya	Diagonalization of relatives	271,2020	P. 2 E
Science	Mrs.S.Anuradha	phase oul	13. 2-202	su
ctrical, Electronic umentation ing	Mr.S.Sivakumar	Therenia's on Nooton's theorem		Pres
nental Science an ing	Dr.S.Udayakumar	Aguatic ecocycley solid wasternat	25/1/2020	Jum
ing Mechanics	Mr.M.Aswin	forces im 3-Dimensions	28/1/20	A P.H
o li i	etrical, Electroni imentation ng ental Science ar ng ng Mechanics	trical, Electronics Imentation Ing Idental Science and Ing Ing Mechanics Implication Ing Ing Ing Ing Ing Ing Ing Ing Ing In	trical, Electronics Imentation Ing Mr.S.Sivakumar Inevent is O Notion's theorem Mental Science and Ing Mr.S.Sivakumar Dr.S.Udayakumar Aquant c ecocytem coldwarternal forces im 3-Dimensions	strical, Electronics Imentation I

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DEPARTMENT OF SCIENCE AND HUMANITIES NPTEL SESSION EXCECUTION STATUS ACADEMIC YEAR 2019-20(ODD)

			1 CIVIL		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mrs.C.Jansi Rani	done of in the sound	12810-19	C Jone
MA8151	Engineering Mathematics-I	Mrs.N.Latha	of integration	15.10.19	Shith
PH8151	Engineering Physics	Mrs.R.Umamaheswari	Semiconductor homofuntronation	17-10.19	Don't
CY8151	Engineering Chemistry	Dr.AL.Kavitha	Light water power Plant	28.11.19	fal con
GE8151	Problem Solving And Python Programming	Mr.M.Arun	enitro2	29.11.19	
GE8152	Engineering Graphics	Mr.V.Sivashankar	free hand port ho graps	10.10.19	Jamy
			I CSE		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mr.P.Rajeshwaran	Reside brigation of the	28-10-19	39
MA8151	Engineering Mathematics-I	Dr.G. Ramya Arockiyamary	Change of order of Integration	14.10.19	Remye
PH8151	Engineering Physics	Mr.S.Ambalatharasu	Somiconductor Homojundron loser disd	20.12.2019	Lang.
CY8151	Engineering Chemistry	Dr.AL.Kavitha	rgut water nuden Power Plant	28.11.19	en la
GE8151	Problem Solving And Python Programming	Mr.M,Arun	Sorting	20.12.20	2.36
GE8152	Engineering Graphics	Mr.M.Aswin	Free hand & Orthographic	10.10:19	A P.F

		IEC	Œ		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mr.K.Anandharaj	anstrope of sales	122-10-19	K. Dond
MA8151	Engineering Mathematics-I	Mr.S.Geetha Dy.R. SURESH	change the order of integration	11-12-19	0
PH8151	Engineering Physics	Mrs.S.Anuratha	Commenter ever	19-12-19	
CY8151	Engineering Chemistry	Dr.P.Saravanan	Solar cell wind energy Selection, Merce	4.12.19	Vm
GE8151	Problem Solving And Python Programming	Mr.R.Sriramkumar	Treeting horizon	20.12719	Plans
GE8152	Engineering Graphics	Mr.M.Sakthivel	Projection of Simple Solidons	17.12.19	mone
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SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mr.P.Rajeshwaran	Shope Breigh	158-10-10	377
MA8151	Engineering Mathematics-I	Mrs.T.Gnanajeya	Change the	24.10.19	P. F. F.
PH8151	Engineering Physics	Mrs.S.Anuratha	Somiconductor homofunction laye	17.12.19	orced
CY8151	Engineering Chemistry	Dr.V.SureshKumar	socar cell wind energy	412:19	155
GE8151	Problem Solving And Python Programming	Mrs. R. Ranitha	Selection, Merge Ensection Sorting	20.12.19	Ris
GE8152	Engineering Graphics	Mr.V.Sivashankar	freehand of orthographic projections	17.10.19	Mons
		I ME	ССН		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Dr.R.Senguttuvan	Asing & Borne	28/0/19	Dr. June
MA8151	Engineering Mathematics-I	Mrs.S.Revathi	Change the order of Integration	29.10.2019	3 Due
PH8151	Engineering Physics	Mr.S.Ambalatharasu	Homejanction lasendal	17.12.2019	Samo
CY8151	Engineering Chemistry	Dr.S.Udhaya kumar	golar cell wind energy	4.12.19	gun
GE8151	Problem Solving And Python Programming	Mrs.Suganthalaksh mı	Solution, Maye, Insution Sortry	24.11.19	Second
GE8152	Engineering Graphics	Mr.M.Sakthivel	Projection of	18.12.19	Mari

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ACADEMIC YEAR 2018-2019



COLLEGE OF ENGINEERING (NAAC Accredited Institution) (Approved by AICTE. New Delth. Affiliated to Anna University. Cheenal)



INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2018-2019 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT : CIVIL

		CLASS: II CIVIL			
Sub code	Subject name	NPTEL session topic & Unit mapped to	execution	Staff Name	Staff Signature
MA8491	Numerical Methods	Finite Difference Techniques for two Dimensional Japane		Ms.S.Revathi	S. Rus
CE8401	Construction Techniques and Practices	Turneling Techniques	20	Mr.K.Ranjith	60 th
CE8402	Strength of Materials II	Enles Column theory	25/01/19	Ms.V.Ishwarya	W
CE8403	Applied Hydraulic Engineering	Francis fulan unity	19/2/19	Mr.S.Kamaraj	82 96
CE8404	Concrete Technology	slump & compaction factor	11/2/19	Mr.M.Md Ilyas	ex
CE8491	Soil Mechanics	Direct Shear test	11/2/19	Ms.M.Priya	J. Fy
		CLASS: III CIVIL			
CE6601	Design of Reinforced Concrete & Brick Masonry Structures	Design of circular slab Unit-4	I IS IN ITC	Mr.S.R.Elwin Guru Chanth	19219
CE6602	Structural Analysis II	Truss element	25/01/19	Ms.R.Revathi	0 25/12
CE6603	Design of Steel Structures	Built up beams	13/2/19	Ms.K.Jeyashankari	Jug 13/0/11
CE6604	Railways, Airports and Harbour Engineering	Earthwork Stabilization	().1.19	Mr.M.Manimuhilan	1 0
CE6605	Environmental Engineering II	Standards of disposal -	25.2.19	Ms.V.Ishwarya	15
CE6003	Remote Sensing and GIS	UNIT-I Atmospheric	02/01/19	Mr.K.Arun	pd 02/11/19
		CLASS: IV "A" CIVI	L		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MG6851	Principles of Management	Creativity and Innovation	m	Mr.K.Sudhakar	J. Sz.orie
CE6016	Prefabricated Structures	Propessive Collapse Clint 5	26.2.19	Mr.M.Manimuhilan	1 de
CE6021	Repair & Rehabilitation of Structures	Self compacting & Creopolym	1/2/19	Mr.S.R.Elwin Guru Chanth	Se de

CLASS: IV "B" CIVIL

Sub code	-Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MG6851	Principles of Management	Creativity and Innovation Unit-4	25.115	Mr.B.Barankumar	8.8 mg
CE6016	Prefabricated Structures	columns Unit -7	19/1/19	Mr.R.Sundharam	B. S.
CE6021	Repair & Rehabilitation of Structures	NOT Techniques	1.12/29	Mr.M.Md Ilyas	eye

IQAC MEMBER (K.ARUN)

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HOD/CIVIL (Ms.R.REVATHI)

926/2/19

PRINCIPAL (Dr.J.ARPUTHA VIJAYA SELVI)



COLLEGE OF ENGINEERING (N.A.A.C. Accredited Institution) (Approved by AICTR. New Delhi, Affiliated to Anno University, Chennai).



INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2018-2019 / ODD SEMESTER NPTEL SESSION EXECUTION STATUS

	The state of the s	CLASS: II CIVIL	Company of the Control of the Contro		-
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA8353	Transforms and Partial Differential Equations	UNITALI One dimensional Heat equation.	1409.10	Dr.R.Suresh	A T
CE8301		Unit - I - Concept of Chearing force and bending moment		Ms.K.Aruna	Kant
CE8302	Fluid Mechanics	Application of ontiple	31/07/18	Mr.K.Ranjith	Mysis
CE8351	Surveying	reduction to could	२०१८/18	Mr.S.Kamaraj	Sur 2
CE8391	Construction Materials	Manufactum gprocusofor	ude [4] 8/19	Mr.M.Mohamed liyas	C/D
CE8392	Engineering Geology	of Beds.	3/9/18	Ms.V.Ishwarya	Ramfollo
		CLASS: III CIVIL			Γ
CE6501	Structural Analysis I	UNIT-IV Continuous Beam	Compared the control of the control	Ms.T.Bhuvaneswari	fair
CE6502	Foundation Engineering	Unit - 2 lion of atternant	26/2/18	Mr.R.Sundharam	R
CE6503	Environmental Engineering	Disinfection & Residue Management	30/8/18	Ms.D.Sharmila	\$ 1.2
CE6504	Highway Engineering	Soil Suitability -	14/7/18	Mr.M.Mohamed Ilyas	elys
CE6505	Design of Reinforced Concrete Elements	A ralyces and delign of	31/07/18	Mr.K.Ranjith	was
CE6506	Construction Techniques, Equipment and Practice	Earthmoring operations, Earthwork Tractors Supply (UNIT-V)		Mr.K.Arun	0/1/0/18
		CLASS: IV "A" CIVI	L		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
CE6701	Structural Dynamics & Earthquake Engineering	for Earthqueke resistance	81/09/40	Mr.K.Arun	Molis
CE6702	Prestressed Concrete Structures	UNIT-D - System & method	5/7/18	Ms.R.Revathi	Que
CE6703	Water Resources and Irrigation Engineering	Non Consumptive Water use	-11111	Ms.D.Sharmila	\$ P.
CE6704	Estimation and Quantity Surveying	unit-z-analysis of rates	20/08/18	Mr.S.R.Elwin Guru Chanth	Acong,
	Housing Planning and Management	Only: I Neibourhood.	27/7/18	Mr.M.Manimukilan	Jupant
	Air Pollution Management	enfoxument	02/04/18	Ms.T.Bhuvaneswari	o los

CLASS: IV "B" CIVIL							
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature		
CE6701	Structural Dynamics & Earthquake Engineering	Unit-IV - Ruponse Spectra	31-08-18	Ms.K.Aruna	k& mt		
CE6702	Prestressed Concrete Structures	Unit -1 - System & method of prestressing	111.07.10	Mr.S.R.Elwin Guru Chanth	Bomb		
CE6703	Water Resources and Irrigation Engineering	consumptive and non	20.7.18	Mr.S.Kamaraj	200Z		
CE6704	Estimation and Quantity Surveying	Ofren		Mr.M.Manimukilan	A HOUSE		
CE6007	Housing Planning and Management	Unit-IV; Green Building Concept.		Ms.V.Ishwarya	kartoli		
CE6011	Air Pollution Management	unit is Legislation & enforcement	5/9/18	Mr.R.Sundharam	Rich		

IQAC MEMBER (K.ARUN)

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HOD/CIVIL (Ms.R.REVATHI)

PRINCIPAL (Dr.J.ARPUTHA VIJAYA SELVI)

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2018-19 (Even Sem)

NPTEL SESSION EXECUTION STATUS

DEPT: CSE

ab.code a submission	I I I I I I I I I I I I I I I I I I I	Date of execution	Staff incharge	Signature
EAR : SEM : SEC: II/ IV			, L:-	1050
IA8402- Probability & Lueuing Theory	Single q Hulfiple Server Queuely	1,3,19	Ms.G.Ramya Arokia Mary	
S8491- Computer Architecture	Memory Hierarchy	1.3.19	Ms.S.Puvaneswari	S.Ru
CS8492- Database Management Systems	DDMG Object Model, odl, ogl	8.3.19	Ms.R.Suganthalakshmi	Goosf
CS8451 - Design & Analysis of Algorithm	Approximation Algor for NP had	12.3.19	Ms.P.Nalayini	P.ruy
CS8493 - Operating Systems	Multithreading	10-1-19	Mr.S.Rajarajan	XX
CS8494- Software Engineering	Mulkithroading Affle Process	28.12.18	Mr.R.Sriramkumar	Dan
YEAR : SEM : SEC:III/VI				
CS6601 Distributed System	Synchronizing Physical Clocks	1.3.19	Ms.R.Ranitha	De 'N
IT6601 Mobile Computing	alobal System for Mobile	29.1.19	Dr.S.M.Uma	SJ
CS6660 Compiler Design	LR Parser IR(0) Item	1:2-19	Ms.G.Chandrapraba	9,ce
IT6502 Digital Signal Processing	11R STILY design by Impule invasionce		Mr.R.Balakrishnan	85
CS6659 Artificial Intelligence	use of	- lilia	Ms.K.Abhirami	Kode
GE6757 Total Quality Management	Predicate Calcul New Hangemen tools	6.2.19	Dr.D.Sivakumar	2 dr
IT6004 Software Testing	Contiguration tes	15.2.19	Mr.S.Rajarajan	282

CS6801- Multicore architectures and programming	MPI-dgrivad	[8-2-19	Ms.B.Sangeetha	of Son
IT6011 - Knowledge management		17-2-19	Ms.S.Puvaneswari	S. Ru
GE6075 - Professional ethics in engineering	0	16.2.19	Mr.K.Rajesh	KRejesh

10/3/19
IQAC Member

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2018-19 (Odd Sem)

NPTEL SESSION EXECUTION STATUS

DEPT: CSE

Sub.code & Sub.Name	NPTEL session topic & Unit mapped to	Date of execution	Staff in-charge
YEAR : SEM : SEC: II/ III		Angulaturah manakaturat dan dibidapatan harik disebah sakutan dibidapat dibida sahir	a statuta di estapo, constituita del colonia esperimente del secolo di colonia del colonia di colonia di colonia
MA8351-Discrete Mathematics	Graphs-Unit-III	entry subsequent in the continuous planting configuration continuous and an entered and	Ms.Geetha
CS8351- Digital Principles and System Design	Storage Elements- Unit-III	24.9.18	Mr.W.Newton David Raj
CS8391- Data Structures	Hash Functions – Unit-V	25.9.18	Ms.P.Nalayini
CS8392 – Object Oriented Programming	Catching Exceptions— Unit-III	11.8.18	Dr.D.Sivakumar
EC8395 - Communication Engineering	Modulator- Demodulator-Unit-I	25.9.18	Mr.K.Sudarsanan
YEAR : SEM : SEC:III/V	3 в стиму протоворовно предостава на предоста Достава на предостава на предоста	Досторовання в поростоями подостивной подости	
MA6566- Discrete Mathematics	Propositional Logic- Unit-I Graphs -Unit-III	30.8.18	Ms.T.Gnanajeya
CS6501- Internet Programming	Internet Technologies- Unit-II	1.8.18	Ms.G.Chandra Praba
CS6502- Object Oriented Analysis and Design	Aggregation and Composition-Unit-III	25.8.18	Dr.S.M.Uma
CS6503- Theory of Computation	Definitions of Turing Machines- Unit-IV	4.9.18	Ms.S.Puvaneswari
CS6504- Computer Graphics	Fractals – Unit-V	25.9.18	Ms.R.Ranitha

Sub.code & Sub.Name	NPTEL session topic & Unit mapped to	Date of execution	Staff in-charge
IT6004, Software Testing	Adhoc Testing, Alpha- Beta testing, Testing 00 Systems, Usability and Accessibility testing- Unit-III	16.2.18	Ms.P.Nalayini
YEAR: SEM: SEC: IV / V		and group descriptions of the description of the second se	
CS6801, Multicore architectures and programming	Point-to-point and Collective communication- Unit-IV	28.01.18	Dr.S.M.Uma
IT6011, Knowledge management	Decision support Systems- Unit-I	20.12.17	Ms.R.Ranitha
GE6075,Professional ethics in engineering	Moral leardership- Unit-V	29.12.17	Ms.B.Sangeetha

Kyllee 16/4/18
IQAC Member

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13.2.18

2. 18/4/18







INTERNAL QUALITY ASSURANCE CELL

ACADEMIC YEAR 2018-2019 / EVEN SEMESTER

NPTEL SESSION EXECUTION STATUS

DEPARTMENT: ECE

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA8451	Probability and Random Processes	Unit – 1 Discrete and continuous random variables.	05.1.19	Mrs.S.Revathi	Shi
EC8452	Electronic Circuits II	Unit – 2 Oscillator amplitude stabilization	25.07.19.	Mr.S.Ramarajan -	5-1
EC8491	Communication Theory	Unit – 1 DSBSC, SSB, VSB	04.01.19	Mrs.D.Vennila	10. Very
EC8451	Electromagnetic Fields	Unit – 5 Group velocity, EM power flow and pointing vector	7.3.19	Mrs.P.Thirumagal	P. D.S
EC8453	Linear Integrated Circuits	Unit – 2 Logarithmic and Antilogarithmic amplifier.	10-1-19	Mr.K.Sudarsanan	don
GE8291	Environmental science and Engineering	Unit – 1 Aquatic Eco systems Unit – 2 Nuclear hazards – soil waste management.	7.1.19	Dr.V.Sureshkumar	1007
	land.	CLASS: III ECE/ 6th	ı sem		
MG6851	Principles of Management	Unit – 1 Evolution of Management	28.60 191	Ms.B.BaranKumar	a grant
CS6303	Computer Architecture	Unit – 5 Memory Hierarchy	27-02-19	Mr.T.Pasupathi	1. July
CS 6551	Computer Networks	Unit - 5 DNS	4-3-19	Dr.T.Shanthi	WO DE
EC6602	Antenna &Wave Propagation	Unit – 5 Ground wave propagation	21.2.19	Ms.N.Mangaiyarkarasi	do soson
EC6601	VLSI Design	Unit – 2 Examples of combinational logic design	10-01-19	Mr.P.Rajapirian	ph

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
EC6001	Medical Electronics	Unit – 5 Thermograph	27.2.19	Mr.R.Thandayuthapani	efoo
		CLASS: IV ECE -A/8t	th sem		
EC6801	Wireless Communication	Unit – 5 MIMO systems	15.2.19	Mrs.R.Ponni	74
EC6802	Wireless networks	Unit – 2 Mobile IP session initiation protocol	19.01.19	Mr.W.Newton David Raj	Makentar.
EC6018	Multimedia Compression and Communication	Unit – 4 CODEC methods Unit- 5 Streamed stored and audiomaking the best effort service	20.2.19 \$ 26.2.19	Dr.T.Shanthi	60
EC6019	Data Converters	Unit – 1 & 5 Switched capacitor architecture. Calibration techniques.	7.1.19 + 01.3.19	Mrs.U.Jeyamalar	
	9	CLASS: IV ECE-B /8t	h sem		
EC6801	Wireless Communication	Unit – 5 MIMO systems	15.2-19	Mr.R.Sathyaraj	AMEN .
EC6802	Wireless networks	Unit – 2 Mobile IP session initiation protocol	21-1-19	Mrs.P.Thirumagal	p. 0
EC6018	Multimedia Compression and Communication	Unit – 4 CODEC methods Unit- 5	25.2.19 * 27.2.19	Mr.S.Sivakumar	finles
EC6019	Data Converters	Unit – 1 & 5 Switched capacitor architecture.	7-1-19	Mr.T.Jeyaseelan	-h /-

IQAC Member (D.Vennila) J. 10844 12019

01.3.19

Calibration techniques.

HOD / ECE



COLLEGE OF ENGINEERING (N.4AC Accredited Institution) (Approved by AICTE, New Delht, Affiliated to Anna University, Chennal)



25/9 18 Ms.N.Mangaiyarkarasi

12.9.18 Mr.R.Thandayuthapani

INTERNAL QUALITY ASSURANCE CELL

ACADEMIC YEAR 2018-2019 / ODD SEMESTER

NPTEL SESSION EXECUTION STATUS

DEPARTMENT: ECE

82)A	CLASS: II ECE /3rd sem					
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature	
MA8352	Partial Differential Equations	Unit-3 Solutions of one dimensional wave equation, One dimensional equation of heat conduction	15.7.18	Mrs.G.Ramya Arockiamary	Mydenmen	
	Control System Engineering	Unit – 2 Type number-PID control	14.8.18	Mr.K.Sudarsanan	More	
EC8393	Object Oriented Programming and Data Structures	Unit - 5 Merge sort	1.10.18	Ms.R.Ranitha	R. Re K	
EC8392	Digital Electronics	Unit – 3 Synchronous counters, Synchronous Up/Down counters, Programmable counters	29.8.18	Ms.D.Vennila	Q. Ventur	
EC8352	Signals and Systems	Unit – 1 CT and DT systems Classification of Systems	13.7.18	Dr.T.Shanthi	16 DO 16	
EC8351	Electronic Circuits- I	Unit - 1 & 2 Various biasing methods for BJT. Differential amplifiers - CMRR	23.8.18	Ms. C.M. Kalaiselvie	CIMICS)	
		CLASS: III ECE/ 5th s	em_			
EC6501	Digital Communication	Unit – 5 Hamming codes	18.9.18	Ms.P.Geethabai	peperation	
EC6502	Principles of Digital Signal Processing	Unit – 2 Discrete time IIR filter from analog filter	25.7.18	Mr.S.Ramarajan	3-1	

Unit - 5

wave guides. Unit – 1 & 2

Soil pollution

Unit - 5

TM and TE waves in Circular

Programming 8051 Timers

aquatic ecosystems &

Transmission Lines

and Wave guides

Environmental -

Microprocessors and

Microcontrollers

Science and

Engineering

EC6503

GE6351

EC6504

CLASS: IV ECE -A/7 th sem					
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
EC6701	RF and Microwave Engineering	Unit – 5 Spectrum analyzer, Network analyzer	15.9.18	Mr.R.Balakrishnan	84
EC6702	Optical Communication and Networks	Unit – 5	24.9.18	Ms.R.Ponni	M
EC6703	Embedded and Real Time System	Unit – 3 Example Real time operating systems-POSIX-Windows CE.	d5.8.18	Mr.S.Sivakumar	Bules
E-II- EC6004	Satellite Communication	Unit – 5 INTELSAT series: INSAT, VSAT	15/9/18	Mr.P.Rajapirian	PA
E-III- EC 6011	Electromagnetic Interference and Compatibility	Unit – 3 Choice of Materials for H, E, and free space fields	16.8.18	Ms.U.Jeyamalar	Q
E-IV- EC6016	Opto Electronic devices	Unit – 1 Review of Solid State Physics	13.718	Mr.T.Jeyaseelan	78=
		CLASS: IV ECE-B /7th	<u>sem</u>	ga 4, 5,	SEVEL
EC6701	RF and Microwave Engineering	Unit – 5 Spectrum analyzer, Network analyzer	14.09.18	Mr.R.Sathyaraj	und
EC6702	Optical Communication and Networks	Unit – 5 Solitons	27.09.18	Mr.S.Ramarajan	3-1
EC6703	Embedded and Real Time System	Unit – 3 Example Real time operating systems-POSIX-Windows CE.	29.8.18	Mr.T.Pasupathi	Theyeng
E-II- EC6004	Satellite Communication	Unit – 5 INTELSAT series: INSAT, VSAT	24.9.18	Mr.T.Jeyaseelan	JY =
E-III- EC 6011	Electromagnetic Interference and Compatibility	Unit – 3 Choice of Materials for H, E, and free space fields	a4.8.18	Ms.P.Thirumagal	P.T.
E-IV- EC6016	Opto Electronic devices	Unit - 1 Review of Solid State Physics	12.7.18	Mr.A.Herald	a de la

IQAC Member (D.Vennila)

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HOD/ECE 28/9/19

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KINGS COLLEGE OF ENGINEERING DEPARTMENT OF EEE ACADEMIC YEAR 2018-19 EVEN

Sub Code /	Name of the	NPTEL session topic	Date of	Faculty Sign
Name	Faculty		Execution	
MB8491	Dr. R. Suresh	Finds difference technique for the southern of 20-5	24.12-18	
EE 8401 EM-II	Mr. C. Johnsolva		13/2/19	my.c
EE8402 T2D	Mrs. N. Arulmozh	Rost Power How in lines - Unit - II	23.1.19	14. 200 81 11
EE8403 MII	Mr.S. sakthivel		24/12/18	230
EE8451	Mr.s. R. Karthikuga	Summer differentiates	23/1/19	7, x. lein
1C8451	Mr. C. Balaji.	Signal Flow Grath- DNIT- I	31/12/18	7
EC6651 CE	Ms. E. Sugarya		11. 2. 2019	
EE6601 SSD	Mr.R. Surdara Moorthy	Four Quadrat operation	28/01/19	Purhin
ES ES	Mr. W. Newton David ray	Serial Bus unit-fi	31-12-18	W. Neutre.
PSOC	Mrs. A. prabha	reachine person control	4/2/19	E-
EE6604 DEM	Dr.s.srakumar	Estimation of no load current - II	2/1/19	the
EEboo2 PST	Mr. J. Arokiaraj.	ENTP - Unit - 5	12/3/19	8On
EGINC EP801		classification of incollegeout lamp-iii	11.1.19	m
RES RES	Dr.A. Albert Martin Ruban	MPPT Tracking	6.3.19	of allow
GEBT57 TOM	Mr.B. Juresh	FMEA	8.3.19	B.8m
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KINGS COLLEGE OF ENGINEERING DEPARTMENT OF EEE ACADEMIC YEAR 2018-19 ODD

Sub Code /	Name of the	NPTEL session topic	Date of	Faculty Sign
Name	Faculty		Execution	
MA8353		10 - Fourier series	14.4.18	hul
TPDE	Mrs. N. Latta	Cauchion	1,7.00	1/41 1
EE 8351	10 1 1 00°	somential dague	6/8/19	W. Newton.
DLC #8391	Rai	SR, TK -unit-111		1
EMT	Mr.S. sakthivel	application-unit-T	14/9/18	s. et
EE8301 EM-I	Mr. M. Mayapard	Testing of transform	28/7/18	84
EC8853 EDC	Mrs. p. Thirumagal	MOSFET -U	20/7/18	
ME8792 PPE	Mr·S·R·Karthikeyar	Diesel uple	25/7/18	1 . (
		D A 1:11		
EE6501 P.SA	Dr. S. Stvakumari	Bus Admillance Matrix- Unit-J	5/7/18	1800
EE6502 MPLMC	Mrs. N. Arulmozhi	Memory organization	30.8.18	zn. growinson
ME6701 PPE	MT.J. Arokiaraj	Diesel Lycle	30-8-18	Ab 8
EEb 503 PE	Mr. R. Sundaraman		14/9/18	Rundi
EE6504	Mr. M. Mayapandi	30 IM-Stand OH- Unit-4	14/9/18	
16501	Mr. C. Balaji	Nyquist Stability Criterian - UNIT - IV	26/9/18	1
EE6701 HVE	Mr. C. Balayi	Testing of CABILITYS-5 Insulation Co-ordination		3
EE6702 PSG	prog. A. Albert Martin Ruban	1	30.7-18	Jim
EE6703 SEM	Mrs. N. Rayeswani	Driver circuit of Steppen mater	6.8.18	m
MG6851 Pom	Mr. B. Guresh Babu	revolgencery and mon-	125.7.18	Dor
EE6005	Ms. E. Buganya	Voltage Sag	20.7.18	
EE 6007 MEMS	Mrs. A. prabha.	Piezo resistive	13/8/18	*
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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2018-2019 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

		CLASS: II-MECH-A	1		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA8452	Statistics and Numerical Methods	Eigenvalues fa	A.1.19	Mrs.N.Latha	R
ME8492	Kinematics of Machinery	uniform velocity, SHM, uns pa, cycloidal mononoteam	30.1.19	Mr.B.Adhichelvan	B-Ad
ME8451	Manufacturing Technology - II	Crew cutting Forming	31/1/19	Mr.R.Arun	5
ME8491	Engineering Metallurgy	fatigne Test [unit (I)]	613/19.	Mr.M.Aswin	As . m
CE8395	Strength of Materials for Mechanical Engineers	-1 -1 -1 -1 -1	22/12/18	Mr.J.Prince Jerome Christopher	Fra
ME8493	Thermal Engineering-I	Regenerative Usele + its Performance-I unit	1/3/19	Mr.S.Rajesh Kumar	<u> </u>
		CLASS: II-MECH-	<u>B</u>		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA8452	Statistics and Numerical Methods	But Congression		Dr.R.Suresh	
ME8492	Kinematics of Machinery	Eyper of Ger Frans	25/2/19	Mr.G.Mathivanan	16
ME8451	Manufacturing Technology - II	Creal Cotten John	0 (Mr.V.Vijaya kumar	orl
ME8491	Engineering Metallurgy	Fatigue, eneer and unit fractions toushness tests	9/3/19 +	Mr.S.Rajesh Kumar	
∴E8395	Strength of Materials for Mechanical Engineers	Volumentria Stain L	22/12/18	Mr.J.Prabhakaran	2
ME8493	Thermal Engineering-I	Duel gete for our	4.3 19	Mr.R.Suriyamurthy	W
		CLASS: III-MECH-	1		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
ME6601	Design of Transmission Systems	Design of love elulch	25/2/19	Mr.S.Giridharan	3
MG6851	System of Management	Budgetary and non- budgetary and /unit-ix	413/19	Mr.J.Prince JeromeChristopher	m
ME6602	Lib Engineering	Differential	7/2/19	Mr.N.Anandaraman	for from
ME6603	Finite Element Analysis	Adyoymetic Problem.	11.2.79	Mr.P.P.Shantharaman	11
ME6604	Gas Dynamics and Jet	get funit TV 13.2.19	13.2.19	Mr.N.Magesh	600)
ME6004	Unconventional	Mechanical M/ciny process	4/3/19	Mr.J.Rajaparthiban	Agril P

the same of the sa		CLASS: III-MECH-	<u>B</u>		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
ME6601	Design of Transmission Systems	Deng n of core dutch	-1.\0	Mr.V.Vijaya kumar	oh
MG6851	Principles of Management		6.3.4	Mr.R.Suriyamurthy	n
ME6602	Automobile Engineering	Pornciple of furchan	0-2-19	Mr.G.Mathivanan	15
ME6603	Finite Element Analysis	Iso parametric formulating	6/3/19	Mr.J.Rajaparthiban	Reid
ME6604	Gas Dynamics and Jet Propulsion			Mr.R.Shankar	Rolling
ME6004	Unconventional Machining Process	Ranget Engriu Electron locaur machining	04/3/19	Mr.S.Giridharan	Nois
		CLASS: IV-MECH-	<u>A</u>		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MG6863	Engineering Economics	Effective Potner rate Excargles of all nemals Production planning Control Systems	31/01/19	Mr.B.Sureshbabu	m Rif
IE6605	Production Planning and Control	Production planning Control Systems	42/19	Mr.M.Melwin J Sridhar	Pour
ME6016	Advanced I.C. Engines	Emission of Non HC Manua		Dr.T.Pushparaj	7. Rud may
		CLASS: IV-MECH-	<u>3</u>		(
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MG6863	Engineering Economics	mapped to Effective Interest vale Examples of all methods	ollozlig	Mr.K.Sudhakar	Rif
E6605	Production Planning and Control	production planning contor! System - Londing		Mr.H.Agilan	A Moren

IQAC Member

Advanced I.C. Engines

ME6016

PAC Member

HOD / MECH

Mr.P.P.Shantharaman

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2018-19 (Odd Sem) NPTEL SESSION EXECUTION STATUS

Sub.code & Sub.Name		Date of execution	Staff incharge sign
	YEAR : SEM : SEC:	立/和/A·	
MA8353 - TPDE	Discrete menthemph	23-8-18	Deal
MES211- Enginering	my First Law of thermo- dynamics meleculary	1617118	P
CE 8394 - FMM	centrifigal Pump	14/9/18	8
MESSSI - MT-I	centrifugal cesting	4417 lis	2
EE 8353- FDC.	Electrical - generator	1018/18	harj-
	YEAR : SEM : SEC:	11/5/A	
	Hidden Line Remove	1018-118	awom
ME6501 - CAC		19/9/18	Rose
MF0502 . HAT	Angalar Measuring	- 1-118	1
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ME6503- DME	Paris de la companya del companya de la companya del companya de la companya de l	28/8/12	1.02
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SEGA. PEE.	YEAR : SEM : SEC	100/09/18 15/101/F	
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ME 6101 88 PP	E Man Jones !	1 50/12/18	100
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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2018-19 (Odd Sem) NPTEL SESSION EXECUTION STATUS

YEAR: SEM: SEC: Year integration inequality.		-fa.h
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YEAR : SEM : SEC:	11/1/8	
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ped Analysia	16-7-2018	Vysty-
r & Shafts	19/7/18	(A) NAT
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LA VIELEN,	3.9.2019	15
Moral Cocketh	P 11/9/18	Lewy
YEAR : SEM : SEC	11/51/8	
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Tholes	12 7 18	6/2
	22.8.18	dig
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DEPARTMENT OF SCIENCE AND HUMANITIES NPTEL SESSION EXCECUTION STATUS ACADEMIC YEAR 2018-19(EVEN)

			I CIVIL		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Mr. K. Albert Lawrence	Witzbergo margo	184-19	KAUS
MA8251	Engineering Mathematics –	Dr. G. Ramya Arockiyamary	Cayley Hamiton	25-4.19	G. Rume
PH8201	Physics for Civil Engineering	Mrs. R. Umamaheswari	Electorical Conductivity Wiedemann Franz Low	0017117	Forest
BE8251	Basic Electrical and Electronics Engineering	Mr. S. Sakthivel	SR thip top.	19/4/19	god.s
GE8291	Environmental Science and Engineering	Dr. AL. Kavitha	Mulear Hasachy and social waste mut:	22/4/19	1 ug
GE8292	Engineering Mechanics	Ms. K. Jeyashankari	forcy in 30	22.4.19	Jujah
	The state of the s		I CSE		U
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Mr. K. Albert Lawrence	Secret pollod sala	19-4-19	K. Alles
MA8251	Engineering Mathematics – II	Mrs. N. Latha	Cayley Hanilon	19-4.19	Ment
PH8252	Physics for Information Science	Mrs. R. Umamaheswari	Electurical conductivis Wiedeneron Franzlau	26.4.19	fred
BE8255	Basic Electrical, Electronics and Measurement Engineering	Mr. C. John Selvaraj	1 of Induction motor unit-TY	18/4/19	8.c
E8291	Environmental Science and Engineering	Dr. S. Udayakumar	Number Horzands Solid waste manyor	26/4/2019	Jun
10231	Programming in C	Mr. M. Arun	Pointers	19/4/19	" Jem

****	The state of the s		RCP	-	
CODI	STREET, AND ADDRESS.	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNA
HS825	1 Technical English	Mr. K. Anandharaj	enterpolation	14. 16. 1 mg	U. Ame
MA825	Engineering Mathematics - II	Mr. G. Jeyakrishnan	Carley Hamitan	9.4.19	GA
PH825	Physics for Electronics Engineering	Mrs. S. Anuradha	Themal conductivity Wiedemann from le	26-4-19	sent
BE825	Basic Electrical and Instrumentation Engineering	Mrs. U. Jeyamalar	throughouse transferom	25-4-19	Watry
EC825	1 Circuit Analysis	Ms. S. Sivakumar	Nortonsteam	24.4.19	8eg
EC8252	2 Electronic Devices	Mr. A. Herald	Bengusteren	distribution of the latest terminal to the	Alfand
		11	EEE		
SUB	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
IS8251	Technical English	Mr. P. Rajeshwaran	Ed nowwords		110
4A825	Engineering Mathematics - II	Mrs. S. Geetha	wood who		5195
PH825	Physics for Electronics Engineering	Mrs. S. Anuradha	elactorical conduction	24/419	youn
3E8252	Basic Civil and Mechanical Engineering	Mr. S. Sabanayagam	Crestachi cd	'sel de	be
E8251	Circuit Theory	Mrs. N. Arulmozhi	Morton's Unit Theorem	/	The Desmile
E8291	Environmental Science and Engineering	Dr.AL. Kavitha	Mulear Hazarda.	13/4/19	7 ug
		I ME	CH A		')
SUB	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
S8251	Technical English	Mr. P. Rajeshwaran	wisebaggist		6100
A825	Engineering Mathematics –	Mr. G. Shankarakalidoss	Cayley Hamil	m 17-6,19	X
1825	Materials Science	Mr. S. Ambalatharasu	Frackura	1714119	Riv
8253	Basic Electrical, Electronics and Instrumentation Engineering	Mr. S. Ramarajan	Contests Containing		O Run
8291	Environmental Science and Engineering	Dr. P. Saravanan			D. Kul
3292	Engineering Mechanics	Mr. S. Sabanayagam	Mucho Harasa Odr Dwagte Monthson y Sigid holosis D	14/4/17	81

A'i			MECH B		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8251	Technical English	Ms. K. Jebamahil	Wischelformongs	19/4/19	k. Jeye
MA8251	Engineering Mathematics -	Mrs. T. Gnanajeya	Cayley Hamilton theorem	9/4/19	P. 1- E
PH8201	Physics for Civil Engineering	Mr. S. Ambalatharasu	Francisco - Critation Critarion.	17/14/19	and.
BE8251	Basic Electrical and Electronics Engineering	Mr. A. Herald	Nortanh them	17-6-17	Allan
GE8291	Environmental Science and Engineering	Dr. P. Saravanan	Said waste maragenet.	19/4/19	18
GE8292	Engineering Mechanics	Mr. M. Aswin	Lamis theorem	18/4/12,	A.R

(Igoe Member)

(H+2/QoH)

DEPARTMENT OF SCIENCE AND HUMANITIES NPTEL SESSION EXCECUTION STATUS ACADEMIC YEAR 2018-19(ODD)

		S	ECTION A		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Dr.V.Kumaran	Stock connections	27.11.18	white way
MA8151	Engineering Mathematics-I	Dr.R.Suresh	Tauylor's series	29.11.18	DO
PH8151	Engineering Physics	Mrs.S.Anuradha	Storess Strain dragsom	22-11-12	secul
CY8151	Engineering Chemistry	Dr.AL.Kavitha	Light water milean Power Plant Scan cell	26/11/18	Tuz
GE8151	Problem Solving And Python Programming	Mrs.K.Abirami	Forting Mapsithms Histogram	27.11.18	Kedlee
GE8152	Engineering Graphics	Mr.R.Shankar	eyelords	29-11-18	R. In
		SI	ECTION B		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mr.P.Rajeshwaran	Stock Central in	26.11.18	6777
MA8151	Engineering Mathematics-I	Mr.G.Shankarakalidoss	Taylors Series	25.11.18	4
PH8151	Engineering Physics	Mrs.R.Umamaheswari	Stress-Strening	25-11-19	second
CY8151	Engineering Chemistry	Dr.P.Saravanan	Format Rant Solar Cell	29.11.18	(8)
GE8151	Problem Solving And Python Programming	Mrs.S.Puvaneswari	Sorting Algorithms	26.11.18	St. Pur 9
GE8152	Engineering Graphics	Mr.J.Rajaparthiban	cycloids of the third the	29-11-18	for the

		SECTI	ON C		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mr.K.AlbertLawrence	N Estopithes	26-11-18	or office
MA8151	Engineering Mathematics-I	Mrs.J.Angelin Thamarai selvi	Taylor Sono	27.11.18	J. Angelin
PH8151	Engineering Physics	Mr.S.Ambalatharasu	Areas Steam	2411/28	Age .
CY8151	Engineering Chemistry	Dr.AL.Kavitha	Diogram. 2 (gut water nuclear power socarell Plant	23/4/13	- l'ag
GE8151	Problem Solving And Python Programming	Dr.J.Jegan	Insurfron but	27.11.18	J.I
GE8152	Engineering Graphics	Mr.R.Shankar	Helix Dylu	20.11.15	Rohn
1		SECTION	ON D		
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Ms.K.Jebamahil	of the population of the standard	37.11.18	Kijobaijo
MA8151	Engineering Mathematics-I	Mrs.S.Revathi	Taylor's Senie	.29-11.18	S. Dre
PH8151	Engineering Physics	Mrs.R.Umamaheswari	Stress Strain	23/4/18	teen
CY8151	Engineering Chemistry	Dr.S.Udayakumar	High pront plat	29/11/2018	June
GE8151	Problem Solving And Python Programming	Mr.R.Sriramkumar	Insertion sort	27.11.18	of
GE8152	Éngineering Graphics	Mr.M.Aswin	Helin Angles	23.11.18	Arr. of
	als charge	SECTI		Made	
SUB CODE	SUB NAME	STAFF NAME	NPTEL TOPIC	DATE OF EXCECUTION	SIGNATURE
HS8151	Communicative English	Mr.P.Rajeshwaran	constanted of the	26.11.18	alog
MA8151	Engineering Mathematics-I	Mr.G.Jeyakrishnan	Taylor Jenes	29.11.18	GR
PH8151	Engineering Physics	Mr.S.Ambalatharasu	Shees shein Droggen	2011/18	Jones
CY8151	Engineering Chemistry	Dr.P.Saravanan	Light water power Plant Solor (FI)	19.11.48	8
GE8151	Problem Solving And Python Programming	Mrs.R.Suganthalaks hmi	Sorting Algoria	19.11.10	800
GE8152	Engineering Graphics	Mr.M.Aswin	Osciolas Pr	22:11:18	Apolor
G	CRAE Member	er)		187	ttoD/SQt

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ACADEMIC YEAR 2017-2018



COLLEGE OF ENGINEERING (NAAC Accredited Institution) (Approved by AICTE, New Delhi, Affiliated to Anna University, Chenna)



INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-2018 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: CIVIL

		<u>CLASS: II CIVIL</u>			
Sub	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA6459	Numerical Methods	Two Dimensional Doisson Equations	13.03.18	Ms.S.Revathi <	S.De
CE6401	Construction Materials	High Strength Concrete	20.2.18	Ms.R.Revathi	Quent3/18
CE6402	Strength of Materials	Pankinis Grordon formula - UNIT - 3	03/2/18		40 281°
CE6403	Applied Hydraulic Engineering	specific energy (Topic	03/01/18	Mr.G.Venkatesan	Grahate
CE6404	Surveying II	arol color mination arol	03/03/18	Mr.K.Ranjith	1c. Det
CE6405	Soil Mechanics	Soil classification - unit 1 Factors influencing Permeability of Soil - Unit-I	24.15.18 13-1-15.18	Mr.S.R.Elwin Guru Chanth	grangy
	I	CLASS: III "A" CIVI	L		
CE6601	Design of Reinforced Concrete & Brick Masonry Structures	Cantilever Extrat foundation		Ms.S.Vanathi	D. Variat
CE6602	Structural Analysis II	Analysis of Continons	30/1/18	Ms.R.Revathi	30
CE6603	Design of Steel Structures	Design of single section	09/2/18	Mr.K.Ranjith	1. Part
CE6604	Railways, Airports and Harbour Engineering	Environmental Concern of Port operations - unit-5		Mr.S.R.Elwin Guru Chanth	mongy
CE6605	Environmental Engineering II	PRIMERY TREATMENT	09/02/18	Mr.M.Manimukilan	Jan J. m
CE6002	Concrete Technology	Mix Design procedure			Plante
	¢.	CLASS: III "B" CIV	L		0/3/
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Ctatt Name	Staff
CE6601	Design of Reinforced Concrete & Brick Masonry Structures	cantilever retaining wall rectangular water tank	22/12/17	Mr.G.Venkatesan	Signature GNEKA
CE6602	Structural Analysis II	Analysis of continuous	9/1/18	Ms.T.Bhuvaneswari	Bitto
CE6603	Design of Steel Structures	Design of Pulin & element of Unit-V	06/02/18	Mr.R.Sundharam	P. 80
CE6604	Railways, Airports and Harbour Engineering	Harbour and Envyonment Concern to Portoperation	th .	Mr.R.Jeovanosan	Olys
CE6605	Environmental Engineering II	ALTIVATED SLUDGE PROLES	2212/18	Mr. Mohamed 1140 Ms.D.Sharmila	0
CE6002	Concrete Technology	Test on cement-Is specifications		Mr.M.Manimukilan	28/2/11

Sub	(A) (A) (B) (B)	CLASS: IV "A" CIVIL					
code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature		
MG6851	Principles of Management	Budgetoty anon Budgeton Control Techniques		Mr.B.Baran kumar	Brown		
CE6016	Prefabricated Structures	Care Studies on - voit ? Reformated Buildys	17/1/18	Mr.K.Arun	K (28 1		
CE6021	Repair & Rehabilitation of Structures	Cathodic protection	11	Mr.R.Sundharam	R		

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MG6851	Principles of Management	Budgetary & non budgeton	01/02/18	Mr.K.Sudhakar	Right
CE6016	Lacron or contract of the cont	case studies, UNIT- []]	1	Ms.T.Bhuvaneswari	B 25/2/18
CE6021	Repair & Rehabilitation of Structures	Cathodic protection - unit-IV	20/11/6	Dr.R.Saravanan (asim.

IQAC Member (K.ARUN)

PRINCIPAL

HOD/CIVIL



COLLEGE OF ENGINEERING (NAAC Accredited Institution) (Approved by AICTE, New Delhit Affiliated to Anna University, Chennal)



INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-2018 / ODD SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: CIVIL

15 12 14 1 1 2 1		CLASS: II CIVIL			
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA6351	Transforms and Partial Differential Equations	Unit 3 – One dimensional equation of heat condition	20/7/18	Ms.G.Ramya Arockiamary	bons
GE6351	Environmental Science and Engineering	Unit 1 – Aquatic Ecosystems Unit 2 – Soil Pollution	30/6/17	Dr.P.Saravanan	PSmi
CE6301	Engineering Geology	Unit 4 – Study of structures - Folds, Faults	17/8/12	Mr.M.Mohamed Iliyas	07/21/9
CE6302	Mechanics of Solids	Unit 3 – Macaulay's Method, Moment Area Method		Mr.K.Arun	W 38
CE6303	Mechanics of Fluids	Unit 3 – Pipes in series and Parellel	24/8/17	Dr.R.Saravanan	3100
CE6304	Surveying I	Unit 4 – Characteristics and uses of contours, plotting	30/8/17	Mr.G.Venkatesan	G. Yerrale
		CLASS: III "A" CIVI	L		
CE6501	Structural Analysis I	Unit 5 – Continuous Beams		Ms.R.Revathi	Dergig!
CE6502	Foundation Engineering	Unit 2 – Bearing capacity for insitu tests	11/7/17	Mr.A.Mohamed Mansoor	An aufter
CE6503	Environmental Engineering I	Unit 2 – Transmission main design and laying		Ms.G.Sofia	G881814
CE6504	Highway Engineering	Unit 4 – Glass fiber, Plastic, Geo textiles, Geo membrane	04/09/17	Mr.R.Jeevanesan	नेज्यावाज.
CE6505	Design of Reinforced Concrete Elements	Unit 2 - Analysis and design of singly and doubly reinforced rectangular beams		Ms.S.Vanathi	D. 08/8/17
CE6506	Construction Techniques, Equipment & Practice	Unit 3 – Piling Techniques Unit 5 – Equipment for compaction , mixing, concreting	03/03/12	Mr.M.Arun Pandiyan	Topport.
		CLASS: III "B" CIVI	<u>L</u>		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
CE6501	Structural Analysis I	Unit 5 - Continuous Beams	24.8.17	Ms.T.Bhuvaneshwari	alston.
CE6502	Foundation Engineering	Unit 2 – Bearing capacity for insitu tests	20/3/17	Mr.R.Jeevanesan	\$19/9
CE6503	Environmental Engineering I	Unit 2 – Transmission main design and laying	17.7.17	Mr.G.Venkatesan	Grana Bile
CE6504	Highway Engineering	Unit 4 – Glass fiber, Plastic, Geo textiles, Geo membrane	8.9.17	Ms.D.Sharmila	\$81717
CE6505	Design of Reinforced Concrete Elements	Unit 3 - Design of RC members for combined bending shear and torsion.	11.8.12	Mr.R.Sundharam	R. A.
CE6506		Unit 5 – Equipment for compaction , mixing, concreting	12/9/17	Ms.G.Sofia	G-8 1219/17

CLASS: IV "A" CIVIL

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
CE6701	Structural Dynamics and Earthquake Engineering	Unit 1 - Degree of freedom Unit 2 - Damped and Undamped MDOF system.	23/6/17	Mr.M.Rajiv	M. RQ
CE6702	Prestressed Concrete Structures	Unit 1 -Systems and method of		Ms.R.Revathi	Den 8/17
CE6703	Water Resource and Irrigation Engineering	Unit 2 – Consumptive and non- consumptive water use	14/03/18	Mr.M.Arun Pandiyan	1 Listo
CE6704	Estimation and Quantity Surveying	Unit 3 - Analysis of Rates	7/8/14	Mr.A.Mohammed Mansoor	A. Way 811:
CE6007	Housing Planning and Management	Unit 2 - Rental Housing, Cooperative Housing	19/7/17	Ms.K.Gowri Devi	71817
CE6011	Air Pollution Management	Unit 4 - Preventive measures & Air pollution control efforts	24/8/18	Mr.K.Arun	XX 308/17

CLASS: IV "B" CIVIL

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
CE6701	Structural Dynamics and Earthquake Engineering	Unit 1 - Degree of freedom Unit 2 - Damped and Undamped MDOF system.	22/6/17	Mr.M.Rajiv	M.RQ W/810
CE6702	Prestressed Concrete Structures	Unit 1 -Systems and method of prestressing, Analysis of sections		Ms.S.Vanathi	5. Vage 117
CE6703	Water Resource and Irrigation Engineering	Unit 2 – Consumptive and non- consumptive water use	20.7.17	Mr.R.Sundharam	RING
CE6704	Estimation and Quantity Surveying	Unit 3 - Analysis of Rates	25.07.17	Ms.T.Bhuvaneswari	12/15
CE6007	Housing Planning and Management	Unit 2 - Rental Housing, Cooperative Housing	13/7/17	Ms.K.Gowri Devi	718/17
CE6011	Air Pollution Management	Unit 4 - Preventive measures & Air pollution control efforts	31.8.17	Ms.D.Sharmila	31/8/17

IQAC MEMBER (K.ARUN) 2. beentu/12

PRINCIPAL (Dr.J.ARPUTHA VIJAYA SELVI) HOD/CIVIL (Dr.R.SARAVANAN)







INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-18 (Odd Sem)

NPTEL SESSION EXECUTION STATUS

DEPT: CSE

Sub.code & Sub.Name	NPTEL session topic & Unit mapped to	Date of execution	Staff in-charge
YEAR : SEM : SEC: II/ III	×*		
MA6453,Probability & Queuing Theory	Queuing Models	15.2.18	Mr.G.Jeyakrishnan
CS6551, Computer Networks	Connection management- Unit-IV	24.2.18	Mr.D.Sivakumar
CS6401,Operating System	Process concept, PCB, Scheduling- Unit-II	06.1.18	Mr.S.Rajarajan
CS6402,Design & Analysis of Algorithm	Approximation algorithm for NP- Unit-V	02.3.18	Mr.R.Sriramkumar
EC6504, Microprocessor & Microcontroller	Architecture of 8051, SFRs-Unit-IV	24.2.18	Ms.P.Nalayini
CS6403, Software Engineering	Estimation- Unit-I	28.12.18	Ms.S.Hemalatha
YEAR: SEM: SEC:III/V	*		
CS6601, Distributed System	Synchronizing physical clocks, logical time and logical clocks-Unit-IV	13.2.18	Ms.R.SuganthaLakshmi
IT6601, Mobile Computing	GSM-Unit-III	02.2.18	Mr.J.Jegan
CS6660, Compiler Design	LR Parser- Unit-III	01.2.18	Ms.S.Puvaneswari
IT6502, Digital Signal Processing	IIR filter design by Impulse invariance, Bilinear transformation- Unit-III	13.2.18	Mr.R.Balakrishnan
CS6659, Artificial Intelligence	Planning systems – Unit-IV	15.2.18	Ms.K.Abhirami
GE6757, Total Quality Management	FEMA- Unit-IV	16.2.18	Mr.D.Sivakumar

Sub.code & Sub.Name	NPTEL session topic & Unit mapped to	Date of execution	Staff in-charge
IT6004, Software Testing	Adhoc Testing, Alpha- Beta testing, Testing 00 Systems, Usability and Accessibility testing- Unit-III	16.2.18	Ms.P.Nalayini
YEAR : SEM : SEC: IV / V			general and a section with comparison of the control of the contro
CS6801, Multicore architectures and programming	Point-to-point and Collective communication- Unit-IV	28.01.18	Dr.S.M.Uma
IT6011, Knowledge management	Decision support Systems- Unit-I	20.12.17	Ms.R.Ranitha
GE6075,Professional ethics in engineering	Moral leardership- Unit-V	29.12.17	Ms.B.Sangeetha

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-2018 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: ECE

		CLASS: II ECE-A /4th	sem		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA6451	Probability and Random Processes	Unit – 1 Discrete and continuous random variables.		Mr.G.Shankarakalidoss	1
EC6401	Electronic Circuits II	Unit – 2 WIEN bridge, Twin-T, frequency range of RC & LC oscillators.	23.01.18	Ms. D. Vennila	10 Newton
EC6402	Communication Theory	Unit – 1 DSBSC	10.1-18	Mr. K. Sudarsanan	Nenis
EC6403	Electromagnetic Fields	Unit – 2 Poissons equation and Laplace equation.	25.01-18	Ms. P. Geethabai	Repr
EC6404	Linear Integrated Circuits	Unit – 2 Logarithmic and Antilogarithmic amplifier.	29.01.18	Mr. W. Newton David Raj	M. Nempo.
EC6405	Control System Engineering	Unit – 2 P,PI,PD,PID compensations.	24/1/8	Mr.S.R.Karthikeyan	5.7. air
		CLASS: II ECE- B / 4th	sem		7
MA6451	Probability and Random Processes	Unit – 1 Discrete and continuous random variables.	22.2.18	Ms.J.Angelinthamaraiselvi	•
EC6401	Electronic Circuits II	Unit – 2 WIEN bridge, Twin-T, frequency range of RC & LC oscillators.	11.1.18	Ms. U. Jeyamalar	Q
EC6402	Communication Theory	Unit – 1 DSBSC	28.12.17	Mr.A.Herald	10.140
EC6403	Electromagnetic Fields	Unit – 2 Poissons equation and Laplace equation.	14 .2 .18	Ms. P.Thirumagal	P.M.
EC6404	Linear Integrated Circuits	Unit – 2 Logarithmic and Antilogarithmic amplifier.	23.1.18	Mr. R. Thandayuthapani	12/00
EC6405	Control System Engineering	Unit – 2 P,PI,PD,PID compensations.	23.1.18	Mr. V.Moorthy	Le Jimi
		CLASS: III ECE-A/ 6th	sem		1
MG6851	Principles of Management	Unit – 5 Budgetary and Non-budgetary control techniques.	26.2.18	Mr. B. Barankumar	33
CS6303	Computer Architecture	Unit – 5 Memory Hierarchy	3.3.18	Mr.K.Rajesh	Leien

Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
CS 6551	Computer Networks	Unit – 5 DNS		Ms. D. Vennila	Signature
EC6601	VLSI Design	Unit – 2 Combinational logic design eg.	18.1.18	Mr. T .Jeyaseelan	fice
EC6602	Antenna &Wave Propagation	Unit – 5 Ground wave propagation.	9.3.18	Ms. N. Mangaiyarkarasi	do
EC6001	Medical Electronics	Unit – 5 Thermograph	5.3.18	Ms. R. Ponni	1
		CLASS: III ECE-B /6th	h sem		
MG6851	Principles of Management	Unit – 5 Budgetary and Non-budgetary control techniques.	03/03/18	Mr. P. Rajapirian	Ph
CS6303	Computer Architecture	Unit – 5 Memory Hierarchy	7.3.18	Ms.B.Sangeetha	pla
CS 6551	Computer Networks	Unit – 5 DNS	14.3.18	Mr.A.Herald	10-11-e
EC6602	Antenna &Wave Propagation	Unit - 5 Ground wave Propagation	3.3.18	Mr. R. Balakrishnan	2k
EC6601	VLSI Design	Unit - 1 Combinational logic design eg	08-01-18	Mr. T.Pasupathi	Tolonfort
EC6001	Medical Electronics	Unit – 5 Thermograph	02.03-18	Mr. R. Sathyaraj	Show
		CLASS: IV ECE /8th s	<u>sem</u>		-
EC6801	Wireless Communication	Unit – 5 MIMO systems	1-2-18	Mr. K. Sudarsanan	derel
EC6802	Wireless networks	Unit – 3 4G Technologies: Multicarrier Modulation, Smart antenna techniques	7.3.18	Mr. S. Ramarajan	3-7.
EC6018	Multimedia Compression and Communication	Unit – 3 Dynamic Huffman Coding	å0·1·18	Ms.T.Shanthi	Cor
EC6019	Data Converters	Calibration techniques	26.12.17 31.1.18	Mr.S.Sivakumar	Cado or

IQAC Member (D.Vennila)

HOD / ECE

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-2018 / ODD SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT: ECE

		CLASS: II ECE-A /3rd	sem		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA6351	Transforms and Partial Differential Equations	Unit-3 Solutions of one dimensional wave equation, One dimensional equation of heat conduction	8.9.17	Ms.S.Revathi	She
EE6352	Electrical Engineering and Instrumentation	Unit – 2 construction and principle of operation of single phase transformer	11/7/17	Mr.\$.R.Karthikeyan	RO
EC6301	Object Oriented Programming and Data Structures	Unit - 5 Merge sort	8/1/10	Mr.M.Arun	3
EC6302	Digital Electronics	Unit – 3 Synchronous counters, Synchronous Up/Down counters, Programmable counters	04.8.17	Ms.D.Vennila	Q Veryline
EC6303	Signals and Systems	Unit – 1 CT and DT systems Classification of Systems	06-7-12	Ms.P.Geethabai	Prom
EC6304	Electronic Circuits- I	Unit – 1 & 2 Various biasing methods for BJT. Differential amplifiers - CMRR	04.08.17	Mr.P.Rajapirian	Plan
N.		CLASS: II ECE- B / 3rd	<u>sem</u>		
MA6351	Transforms and Partial Differential Equations	Unit-3 Solutions of one dimensional wave equation, One dimensional equation of heat conduction	11.9.17	Ms.N.Latha	Dur
EE6352	Electrical Engineering and Instrumentation	Unit – 2 construction and principle of operation of single phase transformer	18-7.2017	Ms.E.Suganya	BIN
EC6301	Object Oriented Programming and Data Structures	Unit - 5 Merge sort	6/9/1	Mr.M.Arun	3
EC6302	Digital Electronics	Unit – 3 Synchronous counters, Synchronous Up/Down counters, Programmable counters	4-9-17 715 HOUY	Mr.K.Sudarsanan	Konl
EC6303	Signals and Systems	Unit – 1 CT and DT systems Classification of Systems	10.7.17	Mr.R.Balakrishnan	34
EC6304	Electronic Circuits- I	Unit – 1 & 2 Various biasing methods for BJT. Differential amplifiers - CMRR	27·b·17 19·7·17	Ms.U.Jeyamalar	Q-

		CLASS: III ECE-A/ 5t	h sem		
Sub code	Subject name	NPTEL session topic & Unit	Date of execution	Staff Name	Staff Signature
EC6501	Digital Communication	Unit – 5 Hamming codes	8.9.17	Ms.R.Ponni	12
EC6502	Principles of Digital Signal Processing	Unit – 2 Discrete time IIR filter from analog filter	12.7-13	Mr.T.Jeyaseelan	TY
EC6503	Transmission Lines and Wave guides	Unit – 5 TM and TE waves in Circular wave guides.	0 9.9.1	ქMs.N.Mangaiyarkarasi	do soon
GE6351	Environmental Science and Engineering	Unit – 1 & 2 aquatic ecosystems & Soil pollution	3.7.17	Mr.R.Balakrishnan	85
EC6504	Microprocessors and Microcontrollers	Unit – 5 Programming 8051 Timers	07.09.1	Mr.R.Thandayuthapan	600
		CLASS: III ECE-B /5th	sem		
EC6501	Digital Communication	Unit – 5 Hamming codes	08.09.17	Mr.R.Sathyaraj	Amuto
EC6502	Principles of Digital Signal Processing	Unit – 2 Discrete time IIR filter from analog filter	13.7.17	Mr.K.Sudarsanan	dent
EC6503	Transmission Lines and Wave guides	Unit – 5 TM and TE waves in Circular wave guides.	24.8.18	Mr.A.Herald	a. we @1
GE6351	Environmental Science and Engineering	Unit – 1 & 2 aquatic ecosystems & Soil pollution	04/08/17	Mr.P.Rajapirian	ph
EC6504	Microprocessors and Microcontrollers	Unit - 5 Programming 8051 Timers	11.9.17	Ms.T.Shanthi	WO PIETO
		CLASS: IV ECE /7th se	em		
EC6701	RF and Microwave Engineering	Unit – 5 Spectrum analyzer, Network analyzer	21.09.17	Mr.S.Ramarajan	37
EC6702	Optical Communication and Networks	Unit - 3 Solitons	17.08.17	Ms.B.Krishnaveni	6
EC6703	Embedded and Real Time System	Unit – 3 Example Real time operating systems-POSIX-Windows CE.	4.8.17	Mr.S.Sivakumar	gue -
E-II- EC6004	Satellite Communication	Unit – 5 INTELSAT series: INSAT, VSAT		Dr.J.Arputha Vijaya Selvi	Plan
E-III-EC 5011	Electromagnetic Interference and Compatibility	Unit - 3	2 . 2	Ms.P.Thirumagal	p. No
C6016	Opto Electronic devices	Unit - 1 Review of Solid State Physics	5 • 7 • 17	Mr.T.Pasupathi	Tilmfut

IQAC Member (D.Vennila)

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KINGS COLLEGE OF ENGINEERING DEPARTMENT OF EEE ACADEMIC YEAR 2017-18 EVEN

Sub Code /	Name of the Staff	NPTEL session topic	Date of	Staff Sign
Name			Execution	
MA6459)	Dr.R. Swesh	20 - Pouson's equation	21/2/18	
EE 6401/	Mr.M. Mayapano			1
CS64561	Mr.M. Arun	Exceptions hierarchy	12/3/18	10 James
EE64021 TAD	Mr. C. Balaji	Reactive person flow in line unit - TV	3/2/18	4
DISP	Mr. Jayasedan	FILTERS Awarping	21/2/18	J.C.
EE64041	Mr. R. Sundana	Static and dynamic	20/12/17	Purtain
-c665)	0			
ZE 6601	Ms. E. suganya			
SSD	Mar. V. Moorthy	4- Ruardant Operation - Unit-III	13.2-18	Mr
E6602 ES E6603	Mrs. A. prabha	Aprila Bus communicates Byologis - Unit - 2	9.1.18	
PSoc	Dr.S.Stvakumar	Load Curves - Unit - 1. Estimation of no	22.12.17	10
DEM		•	18.01.18	1662
PST	Military	Computation - Unit - 5	14-3-18	AD-8
E6801/	Mrs. N. Drivenni	In a diameter		T
Eboog	Drof. A. Albert	MPPT unit - V	3.1.18	ams -
1E67571	Prof. A. Albert Martin Ruban	The	12-3-18	Min
TOM	Mr. suresh Babu	. Σ. Σ.	15/3/18	box
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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-18 (ODD SEMESTER) NPTEL SESSION EXECUTION STATUS

DEPT: EEE

Sub.code & Sub.Name	NPTEL session topic & Unit mapped to	Date of execution	Staff in charge sign
	II YEAR		
MA6351- Transforms and Partial Differential Equations	Solution of one Dimensional wave	23/8/17	16 1 E
EE6301 - Digital Logic Circuits	SIR, TIL, D and T Flipflops	04.09.17	money.
EE6302 - Electromagnetic Theory	DNIT-2 - Glauce's Law & Applications,	04.07.17	Brieg. N.
GE6351 - Environmental Science and Engineering	water Shed management	19-9-17	187
EC6202 - Electronic Devices and Circuits	MOSFET Unit-1	13/7/17	TD-
EE6303 - Linear Integrated Circuits and Applications	Ic Voltage regulators	15.9.17	Doul
	IIIYEAR		
EE6501 - Power System Analysis	Single line diagram	18.8-12	8
EE6502 - Microprocessors &Microcontroller	Building blocks	8.8.17	Bulli
ME6701 - Power Plant Engineering	Diesel Cycle for Diesel P.1	2 24.7.17.	Alle
EE6503 - Power Electronics	Voltage à Current Commutales Chopper	19-8-17	NOR
EE6504 - Electrical Machines - II	speed Control of sp	20.9.17	M. Mala:
IC6501 - Control Systems	Nyquist Blasility	11.9.12	ry
	IV YEAR		
EE6701 - High Voltage Engineering	Browlation Courdination	14.09.2017	c. Ell.
EE6702 - Protection and Switchgear	Over Current relays	18.07.17	A Mem
EE6703 - Special Electrical Machines	Drive circuits in steppes notes	. 14.7.17	0
MG6851 - Principles of Management	Budgetam & Non-bryne Combo fechniques (Ung	12.9.17	B. War
EI6704 - Biomedical Instrumentation	ESR, GISR meannemeels	10/7/18 20/7/17	Quelouis done
EE6007 - Micro Electro Mechanical Systems	Přezoresistive Sensor	18.08.17	Shart

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INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-2018 / EVEN SEMESTER NPTEL SESSION EXECUTION STATUS

DEPARTMENT : MECHANICAL

-	j:	CLASS: II 'A' MECH	1		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA6452	Statistics and Numerical Methods	Taylor's Series method		Ms.T.Gnanajeya	16 F
ME6401	Kinematics of Machinery	Types of followormosion	8/2/18	Mr.N.Anandaraman	None
ME6402	Manufacturing Technology - II	Crown cuty formy	7/2/18	Mr.N.Magesh	000-
ME6403	Engineering Materials and Metallurgy	3200 charge [-13600	9/3/18	Mr.M.Rajeshkumar	0-1
GE6351	Environmental Science	Marie Ecosystem Speil Pollution		Dr.A.L.Kavitha	Aleu
ME6404	Thermal Engineering	Morning - writer, lithium (5)	8/3/18	Mr.V.Vinothkannan	100
		CLASS: II'B' MECI	1	19-11 - 19V	V
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
MA6452	Statistics and Numerical Methods	Taylor series Method	5-2.18	Mr.G.Sankarakalidoss	*
ME6401	Kinematics of Machinery	PARABOLIC, STIMBLE HARMOND ECYCLOIDE MOTIONS (TI)	8-3-18	McS.Karikalan	S. low
ME6402	Manufacturing Technology - II	metal auting		Mr.J.Prabhakaran	8
ME6403	Engineering Materials and Metallurgy	I zool and charpy, (5) Farigin & creep test, froulin	14-3-18	Mr.V.Vinothkannan	VE 5
GE6351	Environmental Science and Engineering	Agnabit de shusten	115/2/18	Dr.S.Udhayakumar	Samo
4E6404	Thermal Engineering	Vapour abjorptionSyntem	5/3/18	Mr.R.Arun	2
126	100000000000000000000000000000000000000	Observation CLASS: III "A" MEC	Н	In-section 1	10
Sub	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signature
4E6601	Design of Transmission Systems	Design of cone dutches	21.2.18	Mr.G.Mathivanan	Signature
4G6851	Principles of Management	Plannito offerentias	9.3.18	Mr.R.Suriyamurthy	Mengini
4E6602	Automobile Engineering	Clutch type	Philippin C	Mr.M.Aswin	A
4E6603	Finite Element Analysis	Finite Element analysis	31.1.18	Mr.J.Prabhakaran -	8
1E6604	Cas Dynamics and Jet Propulsion	Generalised gos Compressi dyrans	20.2.18	Mr.N.Magesh	
	Unconventional Machining Process	LBM, DBM, EBM Norwing principles, Types	01.03.18	Mr.M.Melwin J Sridhar	Yweel

All I		CLASS: III "B" ME	CH		Ch. C
Sub	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staf Signati
ME6601	Design of Transmission Systems	gration of maning spead antions of number of buth	02.01.18	Mr.V.Vijayakumar	only For laid
MG6851	Principles of Management	planno operations	7-3-18	Mr.G.Mathivanan	Forland
ME6602	Automobile Engineering	worming of church.	21.2.18	Mr.R.Suriyamurthy	News
ME6603	Finite Element Analysis	Basic correpts of the FEM, Perhalten of shapefuction, variety	30.12-13	Mr.J.Rajaparthiban	200
ME6604	Gas Dynamics and Jet Propulsion	Performance of Ramjet Engine	5.3.18	Mr.M.Aswin	1
ME6004	Unconventional Machining Process	LEN, EEM. AEM, NJM	26.2.18	Mr.H.Agilan	100m
		CLASS: IV "A" MEC	Н		
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signatu
MG6863	Engineering Economics	Effective interest rate.	05/1/18	Mr.B.Sureshbabu	Suz
E6605	Production Planning and Control	production control (1)	20.1.18	Mr.B.Adhichelvan	Seiz 8 Adria
ME6016	Advanced I.C. Engines	Emission manusing	11-1-18-	Dr.T.Pushparaj	T. Burny
		CLASS: IV "B" MEC	H		. 4
Sub code	Subject name	NPTEL session topic & Unit mapped to	Date of execution	Staff Name	Staff Signatur
MG6863	Engineering Economics	Effective Intrust	silalis	Mr.K.Sudhakar	Right
IE6605	Production Planning and Control	production agent to figures	20-1 18	MnR.Shankar	B
ME6016	Advanced I.C. Engines	Emission Measuring Equipments UNIT-11 (25	8.1.18	Mr.P.P.Shantharaman	1.7M
	14875		Name of Street		
A	QAC Member (V.VINOTH KANNAN)			HOD/	WECH
		J. Cornex	Je 118		
		PRINCIPA	L		The second



INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-18 (Odd Sem) NPTEL SESSION EXECUTION STATUS

SEC: A ENGINEERING DEPT: MECHANICAL Staff incharge NPTEL session topic & Date of Sub.code & Sub.Name sign execution Unit mapped to YEAR : SEM : SEC: TI /W/A Application to closed 10-7-2017 ME6301 - Engineering and open togion-Is four of Application of Ergg 16.8.17 MAGSTI - TPDE Power electronics 24.8.17 E66351 - ED properties of fluid SFD Bon draggers in continued beams 21/8/18 EMM CEG451 -23/9/17 CE 6306 -Application q mother 13.8.13 ME6302 PERIMIT YEAR : SEM : SEC: 11/5/A MELSO3-Design of Comercia 28/6/2017 Excional Stress Qualcion wactine Arryulan meaning in metrology = 14:7.2012 Bevel protecter - Sim gange ME6504- Measurements ME6505. Pyramica A 2 . 8.2017 Free Vobrohm 25.07.17 ME6501 - aided days Solid modeling Heell- Enchanger 2597 ME 6562. 14MT 18-9-17 moral landorship GE6075 - PEE. YEAR: SEM: SEC: IV/VII/A-Customer Complaints, GE6757-Total quality 06/04/2017 customer retention 25/07/17 ME 6702 - Mechanosiy Instruction set Food works tobatment 10/07/17 ME 6701 - POWET Plant Binony cycle Introduction to CARTANO 23/06/17 ME 6703 - CIM Estimation of different 25.7.17 HIGS . FEBL 1V7 E 6005 pepair mathods land INCH HIBBIDS IN 13/9/17 o kars HOD

QAC Member



INTERNAL QUALITY ASSURANCE CELL ACADEMIC YEAR 2017-18 (Odd Sem) NPTEL SESSION EXECUTION STATUS

DEPT: Mehanica Sub.code & Sub.Name			SEC: B
	NPTEL session topic & Unit mapped to	Date of execution	Staff incharge
NOGAEL LES	YEAR : SEM : SEC:	T 150 16	
MAGSSI GTPDE	Application of Engl	u i mi is	
CE 6306/80M	3 Fand BM 1- 40	16/8/17	Q
CEBESI / FMM	Cantilever Beams	H/Ttm	R. Mey
MEBSOI) ETD	Pumps and Turbines	26.09.2019	J8
	Releat/Regerrantice	als/17.00	Jun
MEG302 MTT	Tols eque lety	19.8-19	Se Keny
EE6351 - EDC		22-8-19	Santa
	YEAR : SEM : SEC:	111/4/18	
10E 6502 - HIOT	Jumped Heat Andyois	1.7.2017	CATA
GE6075-PEE.	Moral Leadenship	14/09/2017	\$.do
MEGSON - CAD	Cornfuler gratics		m.safars
ME6505 - DOM	FREE VIBRATION	48.14	Sleid
WE6503- DWE	FACTORS ENFLOONEING	12.7.17	6712
ME6504- MM.	Bracour measurant groupauge YEAR: SEM: SEC:	15.4.17	N. Maron
MEGTOI-PPE	Binay Cycles.	5.7.17	x n
ME6702-Mechalina		24/9/17	Robant
ME6703- CIM	concount eys	27/6/17	01/2
GE 6757 - TOM	Tam took	ue giron.	Jung-
Mébois - PPCE	Estir planof Job		-luteray
ME6012-ME	V 2/ 2/ 2	16/8/12	121
477	0		8/

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