



A. R. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to Anna university, Chennai)
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

Criterion1 – Curricular Aspects

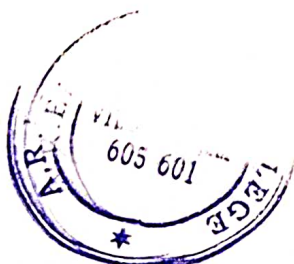
Key Indicator-1.1 curriculum planning and implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous Internal Assessment.

NOTE: The supporting documents for this metric exceed the upload limit of 5MB. Hence the documents are made available in HEI website and links for the metric is given below.

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METRIC	PARAMETER	LINK TO RELEVANT DOCUMENTS
1.1.1	The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous Internal Assessment.	VIEW DOCUMENTS




Dr. R. PANNEERDHASS, M.E., Ph.D.,
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.



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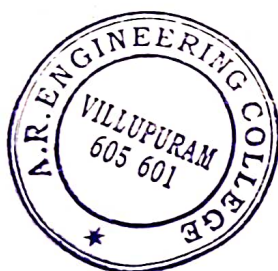
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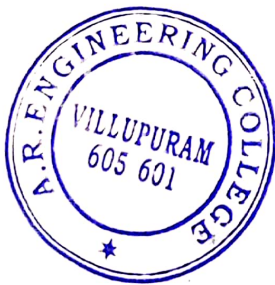


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ACADEMIC YEAR

2018 - 2019




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1	Anna university Academic Schedule
2	Academic Calendar
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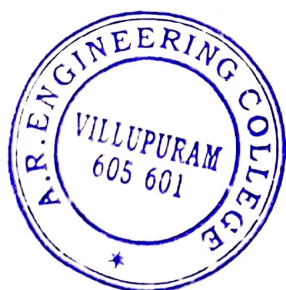

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ANNA UNIVERSITY ACADEMIC SCHEDULE



Dr. R. Panneerdhass
Dr. R. PANNEERDHASS, M.E., Ph.D.,
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 14.08.2018

ANNA UNIVERSITY, CHENNAI
ACADEMIC SCHEDULE
for the
September 2018 - December 2018 ODD SEMESTER ACADEMIC SESSION OF THE
ACADEMIC YEAR 2018 - 2019
I SEMESTER

UG (FT) Degree Programmes offered at Affiliated Engineering Colleges

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech (Full Time)	I	03.09.2018	10.12.2018**	12.12.2018	29.12.2018
2.	B.Arch (Full-Time)	I				

RE-OPENING DAY FOR THE NEXT SEMESTER: 28.01.2019 (Monday)

NOTE:

1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

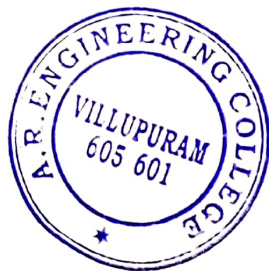
** - In order to ensure minimum no. of working days any 11 Saturdays should also be declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	15.09.2018	Monday
2.	29.09.2018	Tuesday
3.	06.10.2018	Wednesday
4.	13.10.2018	Thursday
5.	27.10.2018	Friday
6.	03.11.2018	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	10.11.2018	Tuesday
8.	17.11.2018	Wednesday
9.	24.11.2018	Thursday
10.	01.12.2018	Friday
11.	08.12.2018	Monday

DIRECTOR
ACADEMIC COURSES

DAC-58




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 13.06.2018

ANNA UNIVERSITY, CHENNAI
ACADEMIC SCHEDULE

for the

July 2018 - December 2018 ODD SEMESTER ACADEMIC SESSION OF THE
ACADEMIC YEAR 2018 - 2019

UG & PG (Full-Time) Degree Programmes offered at Affiliated Engineering Colleges

Sl. No	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (Full-Time)	III, V, VII	02.07.2018	17.10.2018**	22.10.2018	01.11.2018
2.	B.E. / B.Tech. (Part-Time)	III, V, VII				
3.	B. Arch. (Full-Time)	III, V, VII, IX				
4.	M.E. / M.Tech. / M. Arch. (FT)	III				
5.	M.C.A. (Full-Time)	III, V				
6.	M.B.A. (Full-Time)	III				
7.	M.Sc. (5 Yrs - Integrated)	III, V, VII, IX				
8.	M.B.A. (5 Yrs - Integrated)	III, V				

RE-OPENING DAY FOR THE NEXT SEMESTER: 17.12.2018 (Monday)

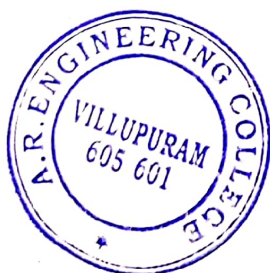
** - In order to ensure minimum no. of working days any 1 Saturday should also be declared as working day

NOTE:

1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

DIRECTOR
ACADEMIC COURSES

DAC - SB




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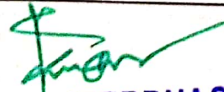


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ACADEMIC CALENDAR ODD SEMESTER 2018 - 2019



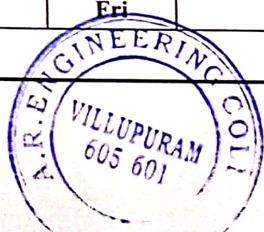

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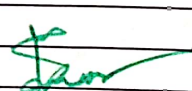
DATE	DAY	MONTH: JULY 2018	NO OF WORKING DAYS
1	Sun	HOLIDAY	
2	Mon	Commencement of Classes for II,III,IV Year	1
3	Tue		2
4	Wed		3
5	Thu		4
6	Fri		5
7	Sat		6
8	Sun	HOLIDAY	
9	Mon		7
10	Tue		8
11	Wed		9
12	Thu		10
13	Fri		11
14	Sat		12
15	Sun	HOLIDAY	
16	Mon		13
17	Tue		14
18	Wed		15
19	Thu		16
20	Fri		17
21	Sat		18
22	Sun	HOLIDAY	
23	Mon		19
24	Tue		20
25	Wed		21
26	Thu		22
27	Fri	INTERNAL ASSESSMENT – I Start (II,III,IV Year)	23
28	Sat	INTERNAL ASSESSMENT – I	24
29	Sun	HOLIDAY	
30	Mon	INTERNAL ASSESSMENT – I	25
31	Tue	INTERNAL ASSESSMENT – I	26



Dr. R. PANNEERDHASS, M.E., Ph.D.
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DATE	DAY	MONTH:AUGUST 2018	NO OF WORKING DAYS
1	Wed	INTERNAL ASSESSMENT – I	27
2	Thu	INTERNAL ASSESSMENT – I End (II,III,IV Year)	28
3	Fri		29
4	Sat		30
5	Sun	HOLIDAY	
6	Mon		31
7	Tue		32
8	Wed		33
9	Thu		34
10	Fri		35
11	Sat		36
12	Sun	HOLIDAY	
13	Mon		37
14	Tue		38
15	Wed	INDEPENDENCE DAY CELEBRATION	
16	Thu		39
17	Fri		40
18	Sat		41
19	Sun	HOLIDAY	
20	Mon		42
21	Tue		43
22	Wed	BAKRID - HOLIDAY	
23	Thu		44
24	Fri		45
25	Sat		46
26	Sun	HOLIDAY	
27	Mon		47
28	Tue		48
29	Wed		49
30	Thu		50
31	Fri		51




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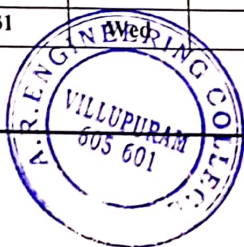


DATE	DAY	MONTH:SEPTEMBER 2018	NO OF WORKING DAYS
1	Sat		52
2	Sun	KRISHNA JAYANTHI HOLIDAY	
3	Mon	Commencement of Classes for I-Year[Marked in bracked]	(1)53
4	Tue	INTERNAL ASSESSMENT - II Start (II,III,IV Year)	(2)54
5	Wed	INTERNAL ASSESSMENT - II TEACHER'S DAY	(3)55
6	Thu	INTERNAL ASSESSMENT - II	(4)56
7	Fri	INTERNAL ASSESSMENT - II	(5)57
8	Sat	INTERNAL ASSESSMENT - II	(6)58
9	Sun	HOLIDAY	
10	Mon	INTERNAL ASSESSMENT - II End (II,III,IV Year)	(7)59
11	Tue		(8)60
12	Wed		(9)61
13	Thu	VINAYAGAR CHATHURTHI - HOLIDAY	
14	Fri		(10)62
15	Sat		(11)63
16	Sun	HOLIDAY	
17	Mon		(12)64
18	Tue		(13)65
19	Wed		(14)66
20	Thu		(15)67
21	Fri	MUHARRAM - HOLIDAY	
22	Sat	HOLIDAY	
23	Sun	HOLIDAY	
24	Mon		(16)68
25	Tue		(17)69
26	Wed		(18)70
27	Thu		(19)71
28	Fri		(20)72
29	Sat		
30	Sun	HOLIDAY	(21)73



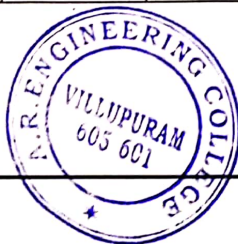

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DATE	DAY	MONTH:OCTOBER 2018	NO OF WORKING DAYS
1	Mon		(22)74
2	Tue	GANDHI JAYANTHI - HOLIDAY	
3	Wed	INTERNAL ASSESSMENT – I START I YEAR MODEL EXAM Start (II,III,IV Year)	(23)75
4	Thu	INTERNAL ASSESSMENT – I MODEL EXAM	(24)76
5	Fri	INTERNAL ASSESSMENT – I MODEL EXAM	(25)77
6	Sat	INTERNAL ASSESSMENT – I MODEL EXAM	(26)78
7	Sun	HOLIDAY	
8	Mon	INTERNAL ASSESSMENT – I MODEL EXAM	(27)79
9	Tue	INTERNAL ASSESSMENT – I END I YEAR MODEL EXAM End (II,III,IV Year)	(28)80
10	Wed		(29)81
11	Thu		(30)82
12	Fri		(31)83
13	Sat		(32)84
14	Sun	HOLIDAY	
15	Mon		(33)85
16	Tue		(34)86
17	Wed	Last Working day for II,III,IV year	(35)87
18	Thu	AYUTHA POOJA	
19	Fri	VIJAYADHASAMI - HOLIDAY	
20	Sat		(36)
21	Sun	HOLIDAY	
22	Mon	Commencement of practical Examinations II,III,IV year	(37)
23	Tue		(38)
24	Wed		(39)
25	Thu		(40)
26	Fri		(41)
27	Sat		(42)
28	Sun	HOLIDAY	
29	Mon		(43)
30	Tue		(44)
31	Wed		(45)



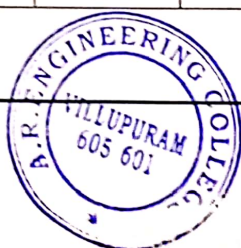
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DATE	DAY	MONTH: NOVEMBER 2018	NO OF WORKING DAYS
1	Thu	Commencement of AU semester Examinations II,III,IV year	(46)
2	Fri		(47)
3	Sat		(48)
4	Sun	HOLIDAY	
5	Mon		(49)
6	Tue	DIWALI - HOLIDAY	
7	Wed		(50)
8	Thu	INTERNAL ASSESSMENT - II START I YEAR	(51)
9	Fri	INTERNAL ASSESSMENT - II	(52)
10	Sat	INTERNAL ASSESSMENT - II	(53)
11	Sun	HOLIDAY	
12	Mon	INTERNAL ASSESSMENT - II	(54)
13	Tue	INTERNAL ASSESSMENT - II	(55)
14	Wed	INTERNAL ASSESSMENT - II END I YEAR	(56)
15	Thu		(57)
16	Fri		(58)
17	Sat		(59)
18	Sun	HOLIDAY	
19	Mon		(60)
20	Tue		(61)
21	Wed	MILAD-UN- NABI - HOLIDAY	
22	Thu		(62)
23	Fri		(63)
24	Sat		(64)
25	Sun	HOLIDAY	
26	Mon		(65)
27	Tue		(66)
28	Wed		(67)
29	Thu		(68)
30	Fri		(69)




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DATE	DAY	MONTH: DECEMBER 2018	NO OF WORKING DAYS
1	Sat		(70)
2	Sun	HOLIDAY	
3	Mon	MODEL EXAM - START I YEAR	(71)
4	Tue	MODEL EXAM	(72)
5	Wed	MODEL EXAM	(73)
6	Thu	MODEL EXAM	(74)
7	Fri	MODEL EXAM	(75)
8	Sat	MODEL EXAM - END I YEAR	(76)
9	Sun	HOLIDAY	
10	Mon		(77)
11	Tue	Last Working day for I year	(78)
12	Wed	Commencement of practical Examinations I year	
13	Thu		
14	Fri		
15	Sat		
16	Sun	HOLIDAY	
17	Mon		
18	Tue		
19	Wed		
20	Thu		
21	Fri		
22	Sat		
23	Sun	HOLIDAY	
24	Mon		
25	Tue	CHRISTMAS HOLIDAY	
26	Wed		
27	Thu		
28	Fri		
29	Sat	Commencement of AU semester Examinations I year	
30	Sun	HOLIDAY	
31	Mon		




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INTERNAL ASSESSMENT SCHEDULE

ODD SEMESTER 2018- 19




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ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : November / December 2018

For all UG/PG - Programmes Except First Semester (Full Time)

Report No	Report Period	Test Period	Report Entry Period
I	02-07-2018 -- 27-07-2018	No Test	27-07-2018 -- 02-08-2018
II	28-07-2018 -- 25-08-2018	17-08-2018 -- 25-08-2018	25-08-2018 -- 31-08-2018
III	27-08-2018 -- 20-09-2018	14-09-2018 -- 20-09-2018	20-09-2018 -- 27-09-2018
IV	22-09-2018 -- 17-10-2018	10-10-2018 -- 17-10-2018	17-10-2018 -- 20-10-2018

Saturdays may be included as working days to make good the Shortages, if any.

CONTROLLER OF EXAMINATIONS




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ANNA UNIVERSITY:: CHENNAI - 600 025
Internal Assessment Schedule for Non Autonomous Affiliated Institutions
Period : November / December 2018 Examinations

ALL UG (Full Time) & M.B.A/M.C.A - First Semester

Report No.	Report Period	Test Period	Report Entry Period
I	03-09-2018 - 20-09-2018	No Test	28-09-2018 - 04-10-2018
II	22-09-2018 - 16-10-2018	10-10-2018 - 16-10-2018	16-10-2018 - 20-10-2018
III	17-10-2018 - 12-11-2018	05-11-2018 - 12-11-2018	12-11-2018 - 15-11-2018
IV	13-11-2018 - 10-12-2018	04-12-2018 - 10-12-2018	10-12-2018 - 12-12-2018

M.E. / M.Tech. / M.Arch (Full Time) - First Semester

Report No.	Report Period	Test Period	Report Entry Period
I	10-09-2018 - 28-09-2018	No Test	28-09-2018 - 04-10-2018
II	29-09-2018 - 25-10-2018	17-10-2018 - 25-10-2018	25-10-2018 - 30-10-2018
III	26-10-2018 - 19-11-2018	13-11-2018 - 19-11-2018	19-11-2018 - 24-11-2018
IV	20-11-2018 - 15-12-2018	10-12-2018 - 15-12-2018	15-12-2018 - 17-12-2018

[Signature]
CONTROLLER OF EXAMINATIONS



[Signature]
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EVEN SEMESTER 2018 - 2019

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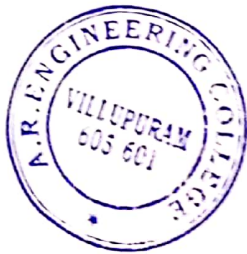

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Anna University Academic Schedule




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Date: 28.11.2018

ANNA UNIVERSITY: CHENNAI - 600 025

ACADEMIC SCHEDULE

ACADEMIC YEAR 2018 - 2019

December 2018 - May 2019 Session (EVEN SEMESTER - Except II Semester)

UG & PG Degree Programmes offered in Affiliated Engineering Colleges

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech (Full-Time)	IV, VI, VIII	19.12.2018	22.03.2019**	25.03.2019	08.04.2019
2	B.E. / B.Tech (Part-Time)	IV, VI				
3	B.Arch. (Full-Time)	IV, VI, VIII, X				
4	M.E. / M.Tech / M.Arch. (FT)	IV				
5	M.C.A. (Full-Time)	IV, VI				
6	M.B.A. (FT)	IV				
7	M.Sc. (5 Yrs-Integrated)	IV, VI, VIII, X				
8	M.B.A. (5 Yrs-Integrated)	IV, VI				

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2019 (Monday)

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations)
- If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays

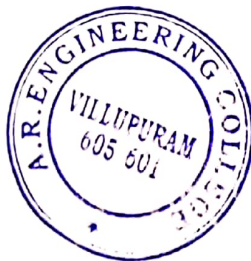
** In order to ensure minimum no. of working days, the following 12 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	22.12.2018	Tuesday
2	29.12.2018	Tuesday
3	05.01.2019	Tuesday
4	12.01.2019	Wednesday
5	19.01.2019	Thursday
6	02.02.2019	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7	09.02.2019	Tuesday
8	16.02.2019	Wednesday
9	23.02.2019	Thursday
10	02.03.2019	Friday
11	09.03.2019	Monday
12	16.03.2019	Tuesday

DIRECTOR
ACADEMIC COURSES

DAC - SB



[Signature]
Dr. R. PANNEERDHASS, M.E., Ph.D.,
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM - 605 601.

Date: 20.12.2018

ANNA UNIVERSITY : CHENNAI - 600 025

ACADEMIC SCHEDULE

for the

January 2019 - May 2019 (EVEN SEMESTER - II Semester) SESSION OF THE

ACADEMIC YEAR 2018 - 2019

UG & PG Degree Programmes offered in Affiliated Engineering Colleges

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech (Full-Time)	II	21.01.2019	22.04.2019**	24.04.2019	05.05.2019
2	B.Arch. (Full-Time)	II				
3	M.E. / M.Tech / M.Arch (FT)	II				
4	M.C.A. (Full-Time)	II				
5	M.B.A. (FT)	II				
6	M.Sc (5 Yrs-Integrated)	II				
7	M.B.A. (5 Yrs-Integrated)	II				

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2019 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in the due course (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following 11 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	02.02.2019	Tuesday	6	09.03.2019	Wednesday
2	09.02.2019	Wednesday	7	16.03.2019	Thursday
3	16.02.2019	Thursday	8	23.03.2019	Friday
4	23.02.2019	Monday	9	30.03.2019	Monday
5	02.03.2019	Tuesday	10	13.04.2019	Wednesday
			11	20.04.2019	Friday

DIRECTOR
ACADEMIC COURSES




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(Approved by AICTE, New Delhi & Affiliated to Anna university, Chennai)
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

ACADEMIC CALENDAR EVEM SEMESTER 2018 - 2019




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ACADEMIC CALENDAR : [Even Semester DEC 2018 – MAY 2019]

DATE	DAY	MONTH: DECEMBER 2018	NO OF WORKING DAYS
1	Sat		(70)
2	Sun	HOLIDAY	
3	Mon	MODEL EXAM - START I YEAR	(71)
4	Tue	MODEL EXAM	(72)
5	Wed	MODEL EXAM	(73)
6	Thu	MODEL EXAM	(74)
7	Fri	MODEL EXAM	(75)
8	Sat	MODEL EXAM – END I YEAR	(76)
9	Sun	HOLIDAY	
10	Mon		(77)
11	Tue	Last Working day for I year	(78)
12	Wed	Commencement of practical Examinations I year	
13	Thu		
14	Fri		
15	Sat		
16	Sun	HOLIDAY	
17	Mon		
18	Tue		
19	Wed	Commencement of Classes for II,III,IV Year	1
20	Thu		2
21	Fri		3
22	Sat		4
23	Sun	HOLIDAY	
24	Mon		5
25	Tue	CHRISTMAS HOLIDAY	
26	Wed		6
27	Thu		7
28	Fri		8
29	Sat	Commencement of AU semester Examinations I year	9
30	Sun	HOLIDAY	
31	Mon		



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605 501.

DATE	DAY	MONTH: JANUARY 2019	NO OF WORKING DAYS
1	Tue	NEW YEAR- HOLIDAY	
2	Wed		11
3	Thu		12
4	Fri		13
5	Sat		14
6	Sun	HOLIDAY	
7	Mon		15
8	Tue		16
9	Wed		17
10	Thu		18
11	Fri		19
12	Sat		20
13	Sun	HOLIDAY	
14	Mon		21
15	Tue	PONGAL -HOLDAY	
16	Wed	THIRUVALLUVAR DAY-HOLIDAY	
17	Thu	UZHAVAR THIRUNAL-HOLIDAY	
18	Fri		
19	Sat	INTERNAL ASSESSMENT- I START (II,III,IV YEAR)	22
20	Sun	HOLIDAY	23
21	Mon	Commencement of Classes for I Year [Marked in bracked] INTERNAL ASSESSMENT- I	(1)24
22	Tue	INTERNAL ASSESSMENT- I	
23	Wed	INTERNAL ASSESSMENT- I	(2)25
24	Thu	INTERNAL ASSESSMENT- I	(3)26
25	Fri	INTERNAL ASSESSMENT- I END (II,III,IV YEAR)	(4)27
26	Sat	REPUBLIC DAY-HOLIDAY	(5)28
27	Sun	HOLIDAY	
28	Mon		
29	Tue		(6)29
30	Wed		(7)30
31	Thu		(8)31
			(9)32



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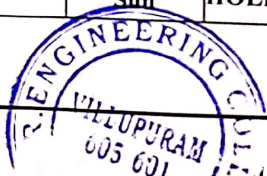
DATE	DAY	MONTH: FEBRUARY 2019	NO OF WORKING DAYS
1	Fri	Sports- Kabaddi [Boys]	(10)33
2	Sat	Sports-Cricket[Boys]	(11)34
3	Sun	HOLIDAY	
4	Mon	Sports-Volley Ball[Boys, Girls]	(12)35
5	Tue	Sports-Throw Ball[Boys, Girls]	(13)36
6	Wed	Sports-foot Ball[Boys, Girls]	(14)37
7	Thu	Sports-Badminton[Boys, Girls]	(15)38
8	Fri		(16)39
9	Sat		(17)40
10	Sun	HOLIDAY	
11	Mon	INTERNAL ASSESSMENT- I START (I YEAR)	(18)41
12	Tue	INTERNAL ASSESSMENT- I	(19)42
13	Wed	INTERNAL ASSESSMENT- I	(20)43
14	Thu	INTERNAL ASSESSMENT- I	(21)44
15	Fri	INTERNAL ASSESSMENT- I	(22)45
16	Sat	INTERNAL ASSESSMENT- I END (I YEAR)	(23)46
17	Sun	HOLIDAY	
18	Mon	INTERNAL ASSESSMENT- II START (II,III,IV YEAR)	(24)47
19	Tue	INTERNAL ASSESSMENT- II	(25)48
20	Wed	INTERNAL ASSESSMENT- II	(26)49
21	Thu	INTERNAL ASSESSMENT- II	(27)50
22	Fri	INTERNAL ASSESSMENT- II	(28)51
23	Sat	INTERNAL ASSESSMENT- II END (II,III,IV YEAR)	(29)52
24	Sun	HOLIDAY	
25	Mon		(30)53
26	Tue		(31)54
27	Wed	SPORTS DAY & ANNUAL DAY CELEBRATION	(32)55
28	Thu		(33)56




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DATE	DAY	MONTH: MARCH 2019	NO OF WORKING DAYS
1	Fri		(34)57
2	Sat		(35)58
3	Sun	HOLIDAY	
4	Mon		(36)59
5	Tue		(37)60
6	Wed		(38)61
7	Thu		(39)62
8	Fri	WOMEN'S DAY	(40)63
9	Sat		(41)64
10	Sun	HOLIDAY	
11	Mon	MODEL EXAM - START (II,III,IV YEAR) INTERNAL ASSESSMENT- II START (I YEAR)	(42)65
12	Tue	MODEL EXAM INTERNAL ASSESSMENT- II	(43)66
13	Wed	MODEL EXAM INTERNAL ASSESSMENT- II	(44)67
14	Thu	MODEL EXAM INTERNAL ASSESSMENT- II	(45)68
15	Fri	MODEL EXAM INTERNAL ASSESSMENT- II	(46)69
16	Sat	MODEL EXAM - END (II,III,IV YEAR) INTERNAL ASSESSMENT- II - END (I YEAR)	(47)70
17	Sun	HOLIDAY	
18	Mon		(48)71
19	Tue		(49)72
20	Wed		(50)73
21	Thu		(51)74
22	Fri		(52)75
23	Sat	Last Working day for II,III,IV year	(53) 76
24	Sun	HOLIDAY	
25	Mon	Commencement of practical Examinations II,III,IV year	(54)
26	Tue		(55)
27	Wed		(56)
28	Thu		(57)
29	Fri		(58)
30	Sat		(59)
31	Sun	HOLIDAY	



[Signature]
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DATE	DAY	MONTH: APRIL 2019	NO OF WORKING DAYS
1	Mon		(60)
2	Tue		(61)
3	Wed		(62)
4	Thu		(63)
5	Fri		(64)
6	Sat	TELUGU NEW YEAR	
7	Sun	HOLIDAY	
8	Mon	Commencement of AU semester Examinations II,III,IV year MODEL EXAM – START (I YEAR)	(65)
9	Tue	MODEL EXAM	(66)
10	Wed	MODEL EXAM	(67)
11	Thu	MODEL EXAM	(68)
12	Fri	MODEL EXAM	
13	Sat	MODEL EXAM – END (I YEAR)	(69)
14	Sun	TAMIL NEW YEAR	
15	Mon		(70)
16	Tue		(71)
17	Wed	MAHAVEER JAYANTHI-HOLIDAY	
18	Thu		(72)
19	Fri	GOOD FRIDAY	
20	Sat		
21	Sun	HOLIDAY	
22	Mon		(73)
23	Tue	Last Working day for I year	(74)
24	Wed	Commencement of practical Examinations I year	
25	Thu		
26	Fri		
27	Sat		
28	Sun	HOLIDAY	
29	Mon		
30	Tue		



DATE	DAY	MONTH: MAY 2019	NO. OF WORKING DAYS
1	Wed	MAY-DAY	
2	Thu		
3	Fri		
4	Sat		
5	Sun	HOLIDAY	
6	Mon	Commencement of AU semester Examinations I year	
7	Tue		
8	Wed		
9	Thu		
10	Fri		
11	Sat		
12	Sun	HOLIDAY	
13	Mon		
14	Tue		
15	Wed		
16	Thu		
17	Fri		
18	Sat		
19	Sun	HOLIDAY	
20	Mon		
21	Tue		
22	Wed		
23	Thu		
24	Fri		
25	Sat		
26	Sun	HOLIDAY	
27	Mon		
28	Tue		
29	Wed		
30	Thu		
31	Fri		



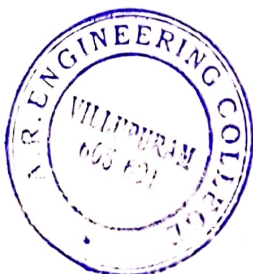

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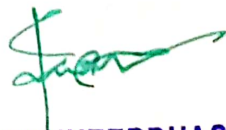


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INTERNAL ASSESSMENT SCHEDULE EVEN SEMESTER 2018- 19




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : April/ May 2019 Examinations

For all UG/PG - Programmes Except II Semester (Full Time/Part Time)

Report No	Report Period	Test Period	Report Entry Period
I	19-12-2018 -- 11-01-2019	No Test	18-01-2019 -- 23-01-2019
II	12-01-2019 -- 07-02-2019	01-02-2019 -- 07-02-2019	07-02-2019 -- 12-02-2019
III	08-02-2019 -- 01-03-2019	23-02-2019 -- 01-03-2019	01-03-2019 -- 06-03-2019
IV	02-03-2019 -- 22-03-2019	18-03-2019 -- 22-03-2019	22-03-2019 -- 23-03-2019

For all UG/PG - Programmes II Semester (Full Time)

Report No	Report Period	Test Period	Report Entry Period
I	21-01-2019 -- 12-02-2019	No Test	12-02-2019 -- 16-02-2019
II	13-02-2019 -- 05-03-2019	28-02-2019 -- 05-03-2019	05-03-2019 -- 11-03-2019
III	07-03-2019 -- 28-03-2019	22-03-2019 -- 28-03-2019	28-03-2019 -- 02-04-2019
IV	29-03-2019 -- 22-04-2019	13-04-2019 -- 22-04-2019	22-04-2019 -- 23-04-2019

Saturdays may be included as working days to make good the Shortages, if any.


CONTROLLER OF EXAMINATIONS




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SUBJECT ALLOCATION




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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

(2018-2019 EVEN SEM)

CIR.NO : AREC/CSE/CIR/01

Date:11.12.2018

It is to inform that subject allocation meeting for the forthcoming semester DEC 2018 –MAY 2019 will be held on **13.12.2018 at 11.00 AM** in the Department of CSE. All the faculty members are requested to attend the meeting without fail. The list of available subjects for the semester and the subject preferences form are enclosed with this circular. All the staff members are requested to fill up the preferences form enclosed.


HOD




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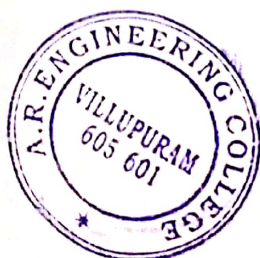
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

SUBJECT PREFERENCES FORM - (EVEN SEM)

PERIOD: DEC 2018 - APR 2019

S. NO	STAFF NAME	THEORY 1		THEORY 2		PRACTICAL		SIGN
		OPT-1	OPT-2	OPT-1	OPT-2	OPT-1	OPT-2	
1	MRS. AMUTHA S	CS8691				CS8481		S. Amutha
2	DR. VENKATA RAMANA K	CS8492				CS6601		V. Venkata
3	MRS. SATHIYA S	CS8492				CS8611		S. Sathya
4	MR. MUTHUKUMARAN K	CS8651				CS8461		V. Mutha
5	MRS. GEETHA T	CS8494					CS6602	G. Geetha
6	MR. DHANAPAL M	CS8602				CS6008		M. Dhanapal
7	MS. SUBATHIRADEVI M	CS8651						M. Subathiradevi
8	MR. MATHAVAN A	CS8611				CS8601		A. Mathavan
9	MRS. SUGANYA P	CS8491				CS8461		P. Suganya
10	MS. SHALINI R	CS8691						R. Shalini
11	MR. PUSHPARAJ E	IT8076				IT8076	CS8811	E. Pushparaj

Note : Kindly enter only the subject code of your preferred subject.




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II YEAR

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	HOURS
THEORY SUBJECTS				
1	MA8402	PROBABILITY AND QUEUEING THEORY	MS.CHANDRAPRABHA I	8
2	CS8491	COMPUTER ARCHITECTURE	MRS. SUGANYA P,AP/CSE	6
3	CS8492	DATABASE MANAGEMENT SYSTEMS	DR. VENKATIA RAMANA K. HOD/CSE	7
4	CS8451	DESIGN AND ANALYSIS OF ALGORITHMS	MRS. SATHIYA S,ASP PR	7
5	CS8493	OPERATING SYSTEMS	MRS. ANDAL R,AP/CSE	6
6	CS8494	SOFTWARE ENGINEERING	MRS. GEETHA T,AP/CSE	6
PRACTICALS				
1	CS8481	DATABASE MANAGEMENT SYSTEMS LABORATORY	MRS. VIJAYA S,AP/CSE	3
2	CS8461	OPERATING SYSTEMS LABORATORY	MRS. SUGANYA P,AP/CSE	3
3	HS8461	ADVANCED READING AND WRITING	DR.V.GIRIJA	1

III YEAR

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	HOURS
THEORY SUBJECTS				
1	CS8651	INTERNET PROGRAMMING	MS. SUBATHIRADEVI M	7
2	CS8691	ARTIFICIAL INTELLIGENCE	MRS. AMUTHA S, ASP PI	6
3	CS8601	MOBILE COMPUTING	MRS. ANDAL R,AP/CSE	7
4	CS8602	COMPILER DESIGN	MR. DHANAPAL M,AP/C	7
5	CS8603	DISTRIBUTED SYSTEM	MRS. VIJAYA S,AP/CSE	6
6	IT8076	SOFTWARE TESTING	MR. PUSHPARAJ E,AP/CSE	6
PRACTICALS				
1	CS8661	INTERNET PROGRAMMING LABORATORY	MR. DINESH BABU P,AP/CSE	3
2	CS8662	MOBILE APPLICATION DEVELOPMENT LABORATORY	MR. DHANAPAL M,AP/C	3
3	CS8611	MINI PROJECT	MRS. GEETHA T,AP/CSE	1
4	HS8581	PROFESSIONAL COMMUNICATION LABORATORY	DR.V.GIRIJA	2

IV YEAR

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	HOURS
THEORY SUBJECTS				
1	CS6801	MULTI-CORE ARCHITECTURE	MR. DINESH BABU P,AP	6
2	CS6008	HUMAN COMPUTER INTERACTION (Elective-IV)	MS. SUBATHIRADEVI M	6
3	MG6008	SOFTWARE PROJECT MANAGEMENT	MR. PUSHPARAJ E,AP/CS	6
PRACTICALS				
4	CS8811	PROJECT WORK	MRS. AMUTHA S, ASP PI	6

K. V. S. S. S.
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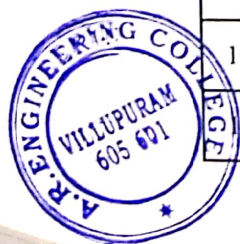
Workload Even 2018 - 2019

S. NO	STAFF NAME	SUBJECT ALLOTMENT	SUBJECT CODE/SUBJECT NAME/YEAR/SEMESTER	WORK LOAD
1	DR. VENKATA RAMANA K, HOD/CSE	Subject - 1	CS8492/DATABASE MANAGEMENT SYSTEMS/II/IV/CSE	1
2	MRS. AMUTHA S, ASP PROF/CSE	Subject - 1	CS8691/ARTIFICIAL INTELLIGENCE/III/VI/CSE	1+1
		Lab - 1	CS8811/PROJECT WORK/IV/VIII/CSE	
3	MS. SUBATHIRADEVI M, AP/CSE	Subject - 1	CS8651/INTERNET PROGRAMMING/III/VI/CSE	2
		Subject - 2	CS6008-HUMAN COMPUTER INTERACTION	
4	MRS. SUGANYA P, AP/CSE	Subject - 1	CS8491/COMPUTER ARCHITECTURE/II/IV/CSE	1+1
		Lab - 1	CS8461/OPERATING SYSTEMS LABORATORY/II/IV/CSE	
5	MRS. SATHIYA S, ASP PROF/CSE	Subject - 1	CS8451/DESIGN AND ANALYSIS OF ALGORITHMS/II/IV/CSE	1
6	MRS. GEETHA T, AP/CSE	Subject - 1	CS8494/SOFTWARE ENGINEERING/II/IV/CSE	1+1
		Lab - 1	CS8611/MINI PROJECT/III/VI/CSE	
7	MR. DHANAPAL M, AP/CSE	Subject - 1	CS8602/COMPILER DESIGN/III/VI/CSE	1+1
		Lab - 1	CS8662/MOBILE APPLICATION DEVELOPMENT LABORATORY/III/VI/CSE	
8	MR. DINESH BABU P, AP/CSE	Subject - 1	CS6801/MULTI-CORE ARCHITECTURE/IV/VIII/CSE	1+1
		Lab - 1	CS8661/INTERNET PROGRAMMING LABORATORY/III/VI/CSE	
9	MRS. VIJAYA S, AP/CSE	Subject - 1	CS8603/DISTRIBUTED SYSTEM/III/VI/CSE	1+1
		Lab - 1	CS8481/DATABASE MANAGEMENT SYSTEMS LABORATORY/II/IV/CSE	
10	MRS. ANDAL R, AP/CSE	Subject - 1	CS8601/MOBILE COMPUTING/III/VI/CSE	2
		Subject - 2	CS8493/OPERATING SYSTEMS/II/IV/CSE	
11	MR. PUSHPARAJ E, AP/CSE	Subject - 1	IT8076/SOFTWARE TESTING/III/VI/CSE	2
		Subject - 2	MG6008/SOFTWARE PROJECT MANAGEMENT/IV/X/ENGINEERING COLLEGE	

Total Subjects : 13

Practicals : 6

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

Workload Even 2018 - 2019

Other Department Staff

S.No	Subject Code/ Subject Name	Staff Name
THEORY SUBJECTS		
1	MA8402/PROBABILITY AND QUEUEING THEORY	MS.CHANDRAPRABHA R
PRACTICALS		
1	HS8461/ADVANCED READING AND WRITING	DR.V.GIRIJA
3	HS8581/PROFESSIONAL COMMUNICATION LABORATORY	DR.V.GIRIJA

Total Subjects : 1

Practicals : 2

K. Venug

HOD



[Signature]
Dr.R.PANNEERDHASS, M.E., Ph D.,
PRINCIPAL
A.R.ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.



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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Vadakuchipalayam, Kappiyampuliur post, Villupuram-605601, Tamilnadu.
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TIME TABLE FOR ACADEMIC YEAR 2018 - 2019
MASTER TIME TABLE - ACADEMIC YEAR 2018-2019 (EVEN SEM)

DAY	YEAR / HOUR	9.30 - 10.20 I	10.20- 11.10 II	11.10-11.25	11.25- 12.15 III	12.15-1.00 IV	1.00-1.35	1.35-2.20 V	2.20-3.05 VI	3.05-3.15	3.15-4.00 VII	4.00-4.45 VIII
MON	II	PQT			OS	CA		DBMS			SE	DAA
	III	MC			SE	CD		IP	DS		Professional Communication Lab	
	IV	HCI			SPM			MCA			PROJECT WORK	
TUE	II	DBMS			PQT	SE		OS	Library		DAA	SE
	III	IP			ES	DS		AI	MC		CD	ES
	IV	MCA			HCI			SPM			PROJECT WORK	
WED	II	DAA			SE	PQT		DBMS	CA		OS	ARW Lab
	III	CD			AI	DS		IP	MAD Lab		MAD Lab	
	IV	SPM			MCA			HCI			PROJECT WORK	
THUR	II	CA			PQT			DAA	DBMS Lab		DBMS Lab	
	III	DS			CD	AI		CD	IP		MC	
	IV	PROJECT WORK			PROJECT WORK			PROJECT WORK			PROJECT WORK	
FRI	II	SE			DAA	DBMS		CA			DS	
	III	AI			MC	ES		IP			Project	

LUNCH BREAK

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Dr.R.PANNEDHASSOR

PRINCIPAL

A.R.ENGINEERING COLLEGE

VADAKUCHIPALAYAM,

KAPPIYAMPULIYUR POST

VILLUPPATTUR DISTRICT

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 VILLUPURAM-605 601.

	IV	PROJECT WORK		PROJECT WORK		PROJECT WORK		PROJECT WORK
	II	OS		PQT	DAA	DBMS	OS Lab	OS Lab
SAT	III	ES		CD	MC	AI	IP Lab	IP Lab
	IV	PROJECT WORK		PROJECT WORK		PROJECT WORK		PROJECT WORK

II YEAR

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	HOURS
THEORY SUBJECTS				
1	MA8402	PROBABILITY AND QUEUEING THEORY	MS.CHANDRAPRABHA R	8
2	CS8491	COMPUTER ARCHITECTURE	MRS. SUGANYA P,AP/CSE	6
3	CS8492	DATABASE MANAGEMENT SYSTEMS	DR. VENKATA RAMANA K, HOD/CSE	7
4	CS8451	DESIGN AND ANALYSIS OF ALGORITHMS	MRS. SATHIYA S,ASP PRO	7
5	CS8493	OPERATING SYSTEMS	MRS. ANDAL R,AP/CSE	6
6	CS8494	SOFTWARE ENGINEERING	MRS. GEETHA T,AP/CSE	6
PRACTICALS				
1	CS8481	DATABASE MANAGEMENT SYSTEMS LABORATORY	MRS. VIJAYA S,AP/CSE	3
2	CS8461	OPERATING SYSTEMS LABORATORY	MRS. SUGANYA P,AP/CSE	3
3	HS8461	ADVANCED READING AND WRITING	DR.V.GIRIJA	1

III YEAR

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	HOURS
THEORY SUBJECTS				
1	CS8651	INTERNET PROGRAMMING	MS. SUBATHIRADEVI M,A	7
2	CS8691	ARTIFICIAL INTELLIGENCE	MRS. AMUTHA S, ASP PRO	6
3	CS8601	MOBILE COMPUTING	MRS. ANDAL R,AP/CSE	7
4	CS8602	COMPILER DESIGN	MR. DHANAPAL M,AP/CS	7
5	CS8603	DISTRIBUTED SYSTEM	MRS. VIJAYA S,AP/CSE	6
6	IT8076	SOFTWARE TESTING	MR. TUSHAR K,AP/CSE	6
PRACTICALS				
	CS8661	INTERNET PROGRAMMING LABORATORY	MR. DINESH BABU P,AP/CSE	3
	CS8662	MOBILE APPLICATION DEVELOPMENT LABORATORY	MR. DHANAPAL M,AP/CS	3
	CS8611	MINI PROJECT	MRS. GEETHA T,AP/CSE	2
	HS8581	PROFESSIONAL COMMUNICATION LABORATORY	DR.V.GIRIJA	2

IV YEAR



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Principal
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KAPPIYAMPULIYUR POST,
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SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	HOURS
<i>THEORY SUBJECTS</i>				
1	CS6801	MULTI-CORE ARCHITECTURE	MR. DINESH BABU P.AP/C	6
2	CS6008	HUMAN COMPUTER INTERACTION (Elective-IV)	MS. SUBATHIRADEVI MA	6
3	MG6008	SOFTWARE PROJECT MANAGEMENT	MR. PUSHPARAJ E.AP/CSE	6
<i>PRACTICALS</i>				
4	CS8811	PROJECT WORK	MRS. AMUTHA S. ASP PRO	6

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TIME TABLE FOR ACADEMIC YEAR 2018 - 2019

II YEAR / IV SEMESTER (EVEN SEMESTER)

CLASS COORDINATOR : MRS. SATHIYA S, ASP PROF/CSE

DAY /	9.30 - 10.20	10.20-11.10	11.10-11.25	11.25-12.15	12.15-1.00	1.00-1.35	1.35-2.20	2.20-3.05	3.05-3.15	3.15-4.00	4.00-4.45
HOUR	I HOUR	II HOUR	TEA BREAK	III HOUR	IV HOUR	LUNCH BREAK	V HOUR	VI HOUR	TEA BREAK	VII HOUR	VIII HOUR
MON	PQT			OS	CA		DBMS			SE	DAA
TUE	DBMS			PQT	SE		OS	Library		DAA	SE
WED	DAA			OS	PQT		SE	DBMS		CA	ARW Lab
THUR	CA			PQT			DAA	DBMS Lab		DBMS Lab	
FRI	SE			DAA	DBMS		CA			PQT	OS
SAT	OS			PQT	DAA		DBMS	OS Lab		OS Lab	

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	HOURS
THEORY SUBJECTS				
1	MA8402	PROBABILITY AND QUEUEING THEORY	MS.CHANDRAPRABHA R	8
2	CS8491	COMPUTER ARCHITECTURE	MRS. SUGANYA P, AP/CSE	6
3	CS8492	DATABASE MANAGEMENT SYSTEMS	DR. VENKATA RAMANA K, HOD/CSE	7
4	CS8451	DESIGN AND ANALYSIS OF ALGORITHMS	MRS. SATHIYA S, ASP PROF	7
5	CS8493	OPERATING SYSTEMS	MRS. ANITA R, AP/CSE	6
6	CS8494	SOFTWARE ENGINEERING	MRS. GEETHA T, AP/CSE	6
PRACTICALS				
7	CS8481	DATABASE MANAGEMENT SYSTEMS LABORATORY	MRS. VIJAYA LAKSHMI, AP/CSE	6
8	CS8461	OPERATING SYSTEMS LABORATORY	MRS. SUGANYA P, AP/CSE	6
9	CS8461	ADVANCED READING AND WRITING	DR.V.GIRIJA	6



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TIME TABLE FOR ACADEMIC YEAR 2018 - 2019

III YEAR / VI SEMESTER (EVEN SEMESTER)

CLASS COORDINATOR : MRS. ANDAL R, AP/CSE

DAY /	9.30 - 10.20	10.20- 11.10	11.10- 11.25	11.25-12.15	12.15-1.00	1.00-1.35	1.35-2.20	2.20-3.05	3.05-3.15	3.15-4.00	4.00-4.45	
HOUR	I HOUR	II HOUR	TEA BREAK	III HOUR	IV HOUR	LUNCH BREAK	V HOUR	VI HOUR	TEA BREAK	VII HOUR	VIII HOUR	
MON	MC			ST	CD		IP	DS		Professional Communication Lab		
TUE	IP			ST	DS		AI	MC		CD	ST	
WED	CD			AI	DS		IP	MAD Lab		MAD Lab		
THUR	DS			CD	AI		CD	IP		MC		
FRI	AI			MC	ST		IP			DS	Mini Project	
SAT	ST			CD	MC		AI	IP Lab		IP Lab		

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	HOURS
THEORY SUBJECTS				
1	CS8651	INTERNET PROGRAMMING	MS. SUBATHIRADEVI MA	7
2	CS8691	ARTIFICIAL INTELLIGENCE	MRS. AMUTHA S, AP/PRO	6
3	CS8601	MOBILE COMPUTING	MRS. ANDAL R, AP/CSE	7
4	CS8602	COMPIER DESIGN	MR. DHANAPAL M, AP/CSE	7
	CS8603	DISTRIBUTED SYSTEM	MRS. VIJAYA S, AP/CSE	6
	IT8076	SOFTWARE TESTING	MR. D. PANNEERDHAS, M. PH.D., PRINCIPAL	6
PRACTICALS				
	CS8661	INTERNET PROGRAMMING LABORATORY	MR. D. PANNEERDHAS, M. PH.D., PRINCIPAL	6
	CS8662	MOBILE APPLICATION DEVELOPMENT LABORATORY	MR. DHANAPAL M, AP/CSE	6
	CS8611	MINI PROJECT	MRS. GRETIA F, AP/CSE	6
	HS8581	PROFESSIONAL COMMUNICATION LABORATORY	DR. V. GIRDA	2



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TIME TABLE FOR ACADEMIC YEAR 2018 - 2019

IV YEAR / VIII SEMESTER (EVEN SEMESTER)

CLASS COORDINATOR : MS. SUBATHIRADEVI M, AP/CSE

DAY /	9.30 - 10.20	10.20- 11.10	11.10- 11.25	11.25-12.15	12.15-1.00	1.00-1.35	1.35-2.20	2.20-3.05	3.05-3.15	3.15-4.00
HOUR	I HOUR	II HOUR	TEA BREAK	III HOUR	IV HOUR	LUNCH BREAK	V HOUR	VI HOUR	TEA BREAK	VII HOUR
MON	HCI			SPM			MCA			PROJECT WORK
TUE	MCA			HCI			SPM			PROJECT WORK
WED	SPM			MCA			HCI			PROJECT WORK
THUR	PROJECT WORK			PROJECT WORK			PROJECT WORK			PROJECT WORK
FRI	PROJECT WORK			PROJECT WORK			PROJECT WORK			PROJECT WORK
SAT	PROJECT WORK			PROJECT WORK			PROJECT WORK			PROJECT WORK
SL.NO	SUB CODE	SUBJECT TITLE							STAFF NAME	HOURS
THEORY SUBJECTS										
1	CS6801	MULTI-CORE ARCHITECTURE							MR. DINESH BABU P,AP/C	6
2	CS6008	HUMAN COMPUTER INTERACTION (Elective-IV)							MS. SUBATHIRADEVI M, AP/CSE	6
3	MC6008	SOFTWARE PROJECT MANAGEMENT							MR. PUSHPARAJ E, AP/CSE	6
PRACTICALS										
4	CS8811	PROJECT WORK							MRS. AMUDHAKUMAR M, AP/CSE	6



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

REF : AREC / CSE /01

Date :14.12.2018

CIRCULAR

It is planned to conduct the course committee meeting for the course **CS8494 - SOFTWARE ENGINEERING** meeting will be held on 16.12.2018 at CSE Staff room 1.15 Pm. The following staff members those who are handling the above course are requested to attend the meeting in time without fail.

CONVENER :

DR.K.VENKATA RAMANA, AP/CSE-

COMMITTEE MEMBERS :

1. MRS. GEETHA T, AP/CSE
2. MR.K.MUTHUKUMARAN , AP/CSE

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

REF : AREC /CSE / 01

Date : 17.12.2018

MINUTES OF MEETING

The course committee meeting for the course CS8494 - SOFTWARE ENGINEERING was conducted on 16.12.2018 at CSE Staff room at 1.10 pm. The following staff members were present.

CONVENER :

DR.K.VENKATA RAMANA, AP/CSE- *K. Venky*

COMMITTEE MEMBERS :

1. MRS. GEETHA T, AP/CSE *Geetha*

2. MR.K.MUTHUKUMARAN , AP/CSE *Muthukumar*

The following discussions are made :

1. The staff members are instructed to complete first and second units on or before 21.01.2019.
2. The staff members are instructed to conduct daily test in their class hours itself.
3. Counseling to be done for those students who are obtained less than 50% of marks in the class test to improve their performance in forthcoming tests.
4. Staff are instructed to check the class notes of the students regularly.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE PLAN INDEX

EVEN SEMESTER 2018- 2019

S. No	Contents	Page No
1	COURSE PLAN	2
2	SYLLABUS	3
3	LESSON PLAN	4-6
4	ASSIGNMENT TOPICS	7
5	CO-PO MAPPING	8
6	STUDENTS NAME LIST	9
7	INTERNAL ASSESSMENT MARK LIST	10




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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE PLAN

Subject code: CS8494

Branch/Year/Sem: B.E- CSE / II / IV

Subject Name: SOFTWARE ENGINEERING

Batch:2017-2021

Staff Name: MRS. GEETHA T, AP/CSE

Academic year:2018-2019(EVEN)

COURSE OBJECTIVE

1. To understand the phases in a software project
2. To understand fundamental concepts of requirements engineering and Analysis Modeling.
3. To understand the various software design methodologies
4. To learn various testing and maintenance measures

TEXT BOOK:

- T1. Roger S. Pressman, "Software Engineering – A Practitioner's Approach", Seventh Edition, Mc Graw-Hill International Edition, 2010.
- T2. Ian Sommerville, "Software Engineering", 9th Edition, Pearson Education Asia, 2011.

REFERENCES:

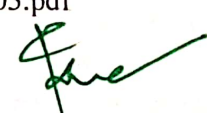
- R1. Rajib Mall, "Fundamentals of Software Engineering", Third Edition, PHI Learning Private Limited, 2009.
- R2. Pankaj Jalote, —Software Engineering, A Precise Approach, Wiley India, 2010.
- R3. Kelkar S.A., —Software Engineering, Prentice Hall of India Pvt Ltd, 2007.
- R4. Stephen R. Schach, —Software Engineering, Tata McGraw-Hill Publishing Company Limited, 2007.

WEB RESOURCES:

- W1: <http://nptel.ac.in/>.
- W2: https://www2.cs.siu.edu/~mengxia/Courses%20PPT/435/Chapter_03.pdf
- W3: <http://www.cs.tau.ac.il/~nachumd/models/Nets.pdf>

TEACHING METHODOLOGIES:

- BB- BLACK BOARD
- VIDEO- VIDEO TUTORIAL
- PPT- POWER POINT PRESENTATION


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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SYLLABUS

CS8494

SOFTWARE ENGINEERING

L T P C
3 0 0 3

UNIT I SOFTWARE PROCESS AND AGILE DEVELOPMENT

9

Introduction to Software Engineering, Software Process, Perspective and Specialized Process Models –Introduction to Agility-Agile process-Extreme programming-XP Process.

UNIT II REQUIREMENTS ANALYSIS AND SPECIFICATION

9

Software Requirements: Functional and Non-Functional, User requirements, System requirements, Software Requirements Document – Requirement Engineering Process: Feasibility Studies, Requirements elicitation and analysis, requirements validation, requirements management-Classical analysis: Structured system Analysis, Petri Nets- Data Dictionary.

UNIT III SOFTWARE DESIGN

9

Design process – Design Concepts-Design Model– Design Heuristic – Architectural Design - Architectural styles, Architectural Design, Architectural Mapping using Data Flow- User Interface Design: Interface analysis, Interface Design –Component level Design: Designing Class based components, traditional Components.

UNIT IV TESTING AND MAINTENANCE

9

Software testing fundamentals-Internal and external views of Testing-white box testing - basis path testing-control structure testing-black box testing- Regression Testing – Unit Testing – Integration Testing – Validation Testing – System Testing And Debugging –Software Implementation Techniques: Coding practices-Refactoring-Maintenance and Reengineering-BPR model-Reengineering process model-Reverse and Forward Engineering.

UNIT V PROJECT MANAGEMENT

9

Software Project Management: Estimation – LOC, FP Based Estimation, Make/Buy Decision COCOMO I & II Model – Project Scheduling – Scheduling, Earned Value Analysis Planning – Project Plan, Planning Process, RFP Risk Management – Identification, Projection - Risk Management-Risk Identification-RMMM Plan-CASE TOOLS

TOTAL: 45 PERIODS

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Topic No	Topic Name	Books For reference	Page No	Teaching Methodology	No of periods required	Cumulative periods
UNIT I SOFTWARE PROCESS AND AGILE DEVELOPMENT						(9)
1.	Introduction to Software Engineering	T1	33-47	BB	1	1
2.	Software Process	T1	52-72	BB	1	2
3.	Perspective Process Models - The Waterfall Model, Incremental Process Models	T1	77-81	BB	1	3
4.	Evolutionary Process Models, Concurrent Models	T1	83,88	BB	1	4
5.	Specialized Process Models	T1	91	BB	1	5
6.	Introduction to Agility	W2	-	PPT	1	6
7.	Agile process	W2	-	PPT	1	7
8.	Extreme programming	W2	-	PPT	1	8
9.	XP Process	W2	-	PPT	1	9
UNIT II REQUIREMENTS ANALYSIS AND SPECIFICATION						(9)
10.	Software Requirements: Functional and Non-Functional	T1	272	BB	1	10
11.	User requirements, System requirements	T1	273	BB	1	11
12.	Software Requirements Document	T1	274	BB	1	12
13.	Requirement Engineering Process: Feasibility Studies	T1	256	BB	1	13
14.	Requirements elicitation and analysis	T1	258	BB	1	14
15.	requirements validation, requirements management	T1	260	BB	1	15
16.	Classical analysis: Structured system Analysis	T1	330	BB	1	16
17.	Petri Nets	W3	-	PPT	1	17
18.	Data Dictionary	T1	328	BB	1	18
UNIT - III SOFTWARE DESIGN						(9)
19.	Design process – Design Concepts	T1	261,265	BB	1	19
20.	Design Model– Design Heuristic	T1	274	BB	1	20
21.	Architectural Design	T1	287	BB	1	21
22.	Architectural styles	T1	291	BB	1	22
23.	Architectural Mapping using Data Flow	T1	307	BB	1	23

AREC/CSE/II YEAR/COURSE PLAN/CS8494-SE

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24.	User Interface Design: Interface analysis	T1	361	PPT	1	24
25.	Interface Design –Component level Design	T1	373,324	PPT	1	25
26.	Designing Class based components	T1	330	PPT	1	26
27.	traditional Components	T1	416	BB	1	27

Topic No	Topic Name	Books For reference	Page No	Teaching Methodology	No of periods required	Cumulative periods
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UNIT IV TESTING AND MAINTENANCE (9)

28.	Software testing fundamentals	T1	421	BB	1	28
29.	Internal and external views of Testing	T1	439	BB	1	29
30.	white box testing - basis path testing - control structure testing	T1	423	BB	1	30
31.	black box testing- Regression Testing – Unit Testing	T1	434	VIDEO	1	31
32.	Integration Testing – Validation Testing	T1	488	VIDEO	1	32
33.	System Testing And Debugging	T1	496	BB	1	33
34.	Software Implementation Techniques: Coding practices-Refactoring	T1	657	BB	1	34
35.	Maintenance and Reengineering-BPR model	T1	802	BB	1	35
36.	Reengineering process model Reverse and Forward Engineering	T1	809	BB	1	36

UNIT V PROJECT MANAGEMENT (9)

37.	Software Project Management: Estimation	W2	-	BB	1	37
38.	LOC, FP Based Estimation, Make/Buy Decision	W2	-	PPT	1	38
39.	COCOMO I & II Model	T1	692	BB	1	39
40.	Project Scheduling – Scheduling	T1	708	BB	1	40
41.	Earned Value Analysis Planning – Project Plan, Planning Process	T1	676	BB	1	41
	RFP Risk Management – Identification, Projection	T1	726	BB	1	42
	Risk Management-Risk Identification	T1	729	BB	1	43

AREC/CSB/II YEAR/COURSE PLAN/CS8494-SE

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44.	RMMM Plan	T1	740	BB	1	44
45.	CASE TOOLS	T1	828	BB	1	45

COURSE OUTCOME

At the end of the course, the student should be able to:

- Identify the key activities in managing a software project
- Compare different process models.
- Concepts of requirements engineering and Analysis Modeling.
- Apply systematic procedure for software design and deployment.
- Compare and contrast the various testing and maintenance.
- Manage project schedule, estimate project cost and effort required.

CONTENT BEYOND THE SYLLABUS

SOFTWARE QUALITY FACTORS




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INTERNAL ASSESSMENT DETAILS

ASSESSMENT NUMBER	I	II	MODEL
TOPIC NO.	1-18	19-36	1-45
DATE			

ASSIGNMENT DETAILS

ASSIGNMENT NUMBER	I	II	III
TOPIC NUMBER FOR REFERENCE	1-15	16-30	31-45
DEADLINE			

ASSIGNMENT NUMBER	DESCRIPTIVE QUESTIONS/TOPIC (Minimum of 8 Pages)
I	1. Explain iterative waterfall and spiral model for software life cycle and discuss various activities in each phase.
II	1. Data Dictionary. 2. Architectural Styles.
IV	1. Black box testing- Regression Testing. 2. System Testing and Debugging.

PREPARED BY

MRS. GEETHA T, AP/CSE

**VERIFIED BY****HOD/CSE**

APPROVED BY

PRINCIPAL

AREC/CSE/II YEAR/COURSE PLAN/CS8494-SE

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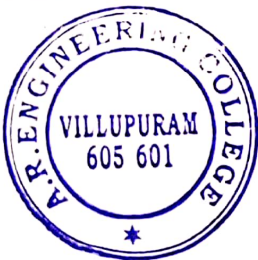
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COURSECODE&NAME:CS8494&SOFTWARE ENGINEERING

COURSE CODE	COURSENAME	COURSEOUTCOMES
CS8494	SOFTWARE ENGINEERING	CO1:Identify the key activities in managing a software project CO2:Compare different process models. CO3:Concepts of requirements engineering and Analysis Modeling. CO4:Apply systematic procedure for software design and deployment CO5:Compare and contrast the various testing and maintenance

MAPPING COURSE OUTCOME WITH PROGRAM OUTCOME

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	1	1	-	-	-	-	-	-	-	-	-	2	2	-
2	3	1	1	-	-	-	-	-	-	-	-	-	2	2	-
3	3	1	1	-	-	-	-	-	-	-	-	-	2	2	-
4	3	1	1	-	-	-	-	-	-	-	-	-	2	2	-
5	3	1	1	-	-	-	-	-	-	-	-	-	2	2	-
AVERAGE	3	1	1	-	-	-	-	-	-	-	-	-	2	2	-




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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

STUDENTS NAME - II YEAR

S.NO	REG.NO	NAME
1	420317104004	GOWSALYA R
2	420317104006	JAYAPRATHA S
3	420317104007	JAYASRI P
4	420317104010	MANIKANDAN P
5	420317104012	NIVETHA R
6	420317104015	PREMKUMAR P
7	420317104016	PRIYANKA R
8	420317104018	RABIYA D
9	420317104019	RAJESHWARI N
10	420317104020	SAKTHIVEL N
11	420317104022	SATHISH D
12	420317104024	SHALANI S
13	420317104027	SUNIL JOSHI V
14	420317104028	VALLARASU K
15	420317104029	VANISHREE N
16	420317104031	YUVARANI M
17	420316106002	KALAIYARASI G
18	420316106003	PAVITHRA K
19	420316106004	SANDHIYA S
20	420316106005	VIGNESH P



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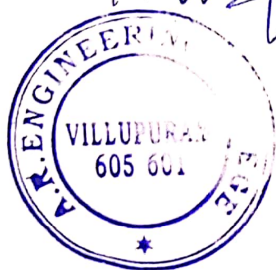


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Internal assessment name list

S.NO	REG.NO	NAME	IA -I	IA -II
1	420317104004	GOWSALYA R	68	71
2	420317104006	JAYAPRATHA S	59	57
3	420317104007	JAYASRI P	69	78
4	420317104010	MANIKANDAN P	76	71
5	420317104012	NIVETHA R	82	74
6	420317104015	PREMKUMAR P	63	52
7	420317104016	PRIYANKA R	91	86
8	420317104018	RABIYA D	84	75
9	420317104019	RAJESHWARI N	66	53
10	420317104020	SAKTHIVEL N	86	89
11	420317104022	SATHISH D	56	61
12	420317104024	SHALANI S	68	63
13	420317104027	SUNIL JOSHI V	79	81
14	420317104028	VALLARASU K	81	86
15	420317104029	VANISHREE N	84	79
16	420317104031	YUVARANI M	61	50
17	420316106002	KALAIYARASI G	96	86
18	420316106003	PAVITHRA K	53	56
19	420316106004	SANDHIYA S	87	75
20	420316106005	VIGNESH P	74	69



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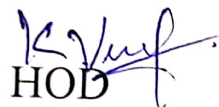
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

IA-1 TIME TABLE FOR ACADEMIC YEAR 2018 - 2019

II YEAR / IV SEMESTER (EVEN SEMESTER)

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	DATE
1	MA8402	PROBABILITY AND QUEUEING THEORY	MS.CHANDRAPRABHA R	19.01.2019
2	CS8491	COMPUTER ARCHITECTURE	MRS. SUGANYA P.AP/CSE	21.01.2019
3	CS8492	DATABASE MANAGEMENT SYSTEMS	DR. VENKATA RAMANA K.	22.01.2019
4	CS8451	DESIGN AND ANALYSIS OF ALGORITHMS	MRS. SATHIYA S.ASP PROF/CSE	23.01.2019
5	CS8493	OPERATING SYSTEMS	MRS. ANDAL R.AP/CSE	24.01.2019
6	CS8494	SOFTWARE ENGINEERING	MRS. GEETHA T.AP/CSE	25.01.2019


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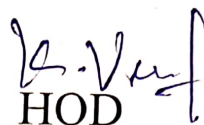



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IA-1 TIME TABLE FOR ACADEMIC YEAR 2018 - 2019
III YEAR / VI SEMESTER (EVEN SEMESTER)

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	DATE
THEORY SUBJECTS				
1	CS8651	INTERNET PROGRAMMING	MS. SUBATHIRADEVI M	19.01.2019
2	CS8691	ARTIFICIAL INTELLIGENCE	MRS. AMUTHA S, ASP PI	21.01.2019
3	CS8601	MOBILE COMPUTING	MRS. ANDAL R, AP/CSE	22.01.2019
4	CS8602	COMPILER DESIGN	MR. DHANAPAL M, AP/C	23.01.2019
5	CS8603	DISTRIBUTED SYSTEM	MRS. VIJAYA S, AP/CSE	24.01.2019
6	IT8076	SOFTWARE TESTING	MR. PUSHPARAJ	25.01.2019


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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
IA-1 TIME TABLE FOR ACADEMIC YEAR 2018 - 2019
IV YEAR / VIII SEMESTER (EVEN SEMESTER)

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	DATE
THEORY SUBJECTS				
1	CS6801	MULTI-CORE ARCHITECTURE	MR. DINESH BABU P.AP/CSE	21.01.2019
2	CS6008	HUMAN COMPUTER INTERACTION (Elective-IV)	MS. SUBATHIRADEVI M.AP/CSE	22.01.2019
3	MG6008	SOFTWARE PROJECT MANAGEMENT	MR. PUSHPARAJ E.AP/CSE	23.01.2019


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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
IA-2 TIME TABLE FOR ACADEMIC YEAR 2018 - 2019
II YEAR / IV SEMESTER (EVEN SEMESTER)

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	DATE
1	MA8402	PROBABILITY AND QUEUEING THEORY	MS.CHANDRAPRABHA R	18.02.2019
2	CS8491	COMPUTER ARCHITECTURE	MRS. SUGANYA P.AP/CSE	19.02.2019
3	CS8492	DATABASE MANAGEMENT SYSTEMS	DR. VENKATA RAMANA K,	20.02.2019
4	CS8451	DESIGN AND ANALYSIS OF ALGORITHMS	MRS. SATHIYA S,ASP PROF/CSE	21.02.2019
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IA-2 TIME TABLE FOR ACADEMIC YEAR 2018 - 2019
III YEAR / VI SEMESTER (EVEN SEMESTER)

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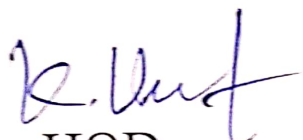


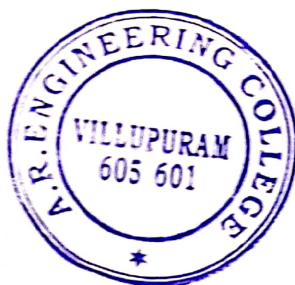

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IA-2 TIME TABLE FOR ACADEMIC YEAR 2018 - 2019
IV YEAR / VIII SEMESTER (EVEN SEMESTER)

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	DATE
<i>THEORY SUBJECTS</i>				
1	CS6801	MULTI-CORE ARCHITECTURE	MR. DINESH BABU P.AP/CSE	18.02.2019
2	CS6008	HUMAN COMPUTER INTERACTION (Elective-IV)	MS. SUBATHIRADEVI M.AP/CSE	19.02.2019
3	MG6008	SOFTWARE PROJECT MANAGEMENT	MR. PUSHPARAJ E.AP/CSE	20.02.2019


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INTERNAL ASSESSMENT TEST-1(UNIT-1 and UNIT-2)			
PROGRAMME & BRANCH	B.E & COMPUTER SCIENCE AND ENGINEERING	SEMESTER	IV
COURSE CODE & NAME	CS8494-SOFTWARE ENGINEERING	DATE	25.01.2019
MAXIMUM MARKS	100	DURATION AND TIME	03 HRS & 10 AM TO 1 PM

PART- A ANSWER ALL QUESTIONS	(10 x 2 = 20 Marks)
-------------------------------------	----------------------------

Q. No	Questions	BTL	CO	Mark
1	Write the IEEE definition of Software Engineering?	BTL1	1	2
2	Predict about XP story?	BTL2	1	2
3	Differentiate SDD and DDD	BTL4	1	2
4	Summarize on extreme programming	BTL2	1	2
5	Differentiate Validation and Verification. Give Example?	BTL2	1	2
6	Define feasibility study. And list the types.	BTL1	2	2
7	List the characteristics of a good system requirements specification(SRS)	BTL1	2	2
8	Explain how to manage changing requirements during the requirements elicitation process?	BTL5	2	2
9	Explain, how the requirements are validated?	BTL5	2	2
10	Generalize on the concept of data dictionary.	BTL6	2	2

PART- B ANSWER ANY ONE QUESTION	(05 x 13 = 65 Marks)
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Q. No	Questions	BL	CO	Mark
11 (a)	Define Software Life cycle. List all life Cycle Models and explain Spiral model with neat Diagram.	BTL1	1	13
OR				
11 (b) (i)	Describe the agile modeling in detail.	BTL1	1	07
(ii)	Explain the component based software development model with a neat sketch.	BTL1	1	06
12 (a) (i)	Discuss in detail about Scrum.	BTL 2	1	06
(ii)	What is the significance of the spiral model when compared with other model	BTL 2	1	7
OR				
12 (b)	Explain about the Umbrella activities which support software development process and discuss about their necessity in maintaining the quality in both software process and product that is being developed for railway reservation system.	BTL5	1	13



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13 (a)	Analyze about the requirement engineering process and how the requirements are managed.	BTL 4	2	13
OR				
13 (b)	What is requirement elicitation? Briefly describe the various activities performed in requirements elicitation with an example of a watch system that facilitates to set time and alarm and assess.	BTL 5	2	13
14 (a)	Write short notes on the list given below (i) Requirements discovery and Interviewing. (ii) Scenarios and Use cases. (iii) Ethnography.	BTL 3	2	5 4 4
OR				
14 (b)	(i) Analyze briefly about the structural system analysis in detail. (ii) Explain about classical Petri nets model.	BTL 4	2	7 6
15 (a)	Draw and Explain the use case diagram for an ATM system in requirement elicitation.	BTL 5	2	13
OR				
15 (b)	Assess on software requirement specification for banking system.	BTL 5	2	13

PART- C ANSWER ANY ONE QUESTION (01 x 15 = 15 Marks)

Q. No	Questions	BL	CO	Mark
16.a.	Assume that you are the technical manager of a software development organization. A Client approached you for a software solution the problems stated by the client have uncertainties which lead to loss if it not planned and solved which software development model you will suggest for this project –justify. Explain that model With its pros and cons and neat sketch.	BTL 5	1	15
(Or)				
16. b.	Develop an online railway reservation system, which allows the user to select route, book/cancel tickets using net banking/credit/debit cards. The site also maintains the history of the passengers. For the above system, list and draw the use case scenario and model the above specification.	BTL 6	2	15

Blooms Level	Marks
1	38
2	19
3	13
4	28
5	73
6	17
Total	188



[Signature]
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KAPPIYAMPULIYUR POST,
VILLUPURAM-604 601.



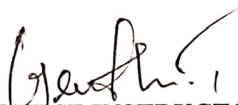
Q.NO	Course Outcome	Marks
1,2,3,4, 11 a) & b), 12 a) & b) , 14 a), 15 b)	Co-2	86
5,6,7,8,9,10, 13 a)& b), 14 b), 15 a), 16 a) b)	Co-3	94

BL – Bloom's Taxonomy Levels

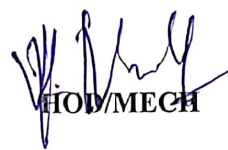
(L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing, L5 - Evaluating, L6 - Creating)



EXAM CELL CO-ORDINATOR



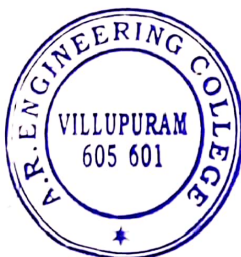
COURSE INSTRUCTOR



HOD/MECH



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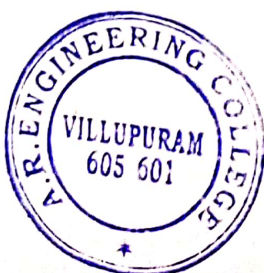
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

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EVEN SEMESTER 2018- 2019

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE /01 /2018-19 –EVEN SEM

Date :21.12.2018

CIRCULAR

The first class committee meeting for VIII semester CSE is to be held in the HOD cabin on 22.12.2018 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

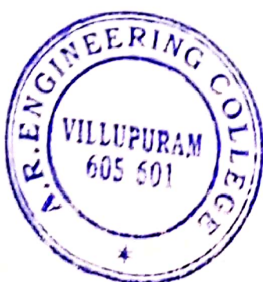
- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Batch preparation and research topics were chosen for the project work.
- Placement activities for final – year students.

S.NO	NAME	DESIGNATION	SIGN
1	MRS.GEETHA.T, AP/CSE	Chair person	
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	
3	MS.SUBATHIRADEVI.M,AP/CSE	Member	
4	MR.PUSHPARAJ.E, AP/CSE	Member	
5	MR.DINESH BABU.P, AP/CSE	Member	
6	JAYARAJ J	Student Representative	
7	SARASWATHY.V	Student Representative	

Copy to:

1. Circulate among staff members.
2. Class advisor File.
3. Final – year students.

HOD



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19 –EVEN SEM

Date : 22.12.2018

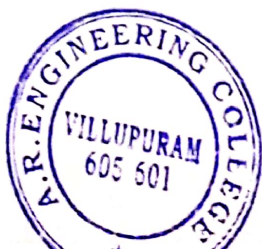
Minutes of meeting

The first class committee meeting for VIII Semester CSE was held on 22.12.2018 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MRS.GEETHA.T. AP/CSE	Chair person	
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	
3	MS.SUBATHIRADEVI.M.AP/CSE	Member	
4	MR.PUSHPARAJ.E. AP/CSE	Member	
5	MR.DINESH BABU.P. AP/CSE	Member	
6	JAYARAJ J	Student Representative	
7	SARASWATHY.V	Student Representative	

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the Students To Select The Elective Subject.
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.
7	Students were instructed to choose good research topics and prepare batches for the project.	HOD advised the students to choose creative and innovative research topics for the project and get approval from the guide.
8	Students are advised to prepare well to attend	Placement coordinators are instructed to

3



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the placements and other exams.	identify new additional recruiters and arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.
---------------------------------	--

K. Veng
HOD

Copy

1. Circulate among staff members.
2. Class advisor File.



4

Dr. R. Panneerdhass
Dr. R. PANNEERDHASS, M.E., Ph.D.
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19 –EVEN SEM
CIRCULAR

Date : 21.12.2018

The first class committee meeting for VI semester CSE is to be held in the HOD cabin on 22.12.2018 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Academic schedule.
- Maintain proper dress code and class attendance.
- Arrangement for guest lecture / seminar for students.
- Secure good marks in internal assessment exams.
- Selection of elective subject.
- Batch preparation and topics were chosen for the mini –project.

S.NO	NAME	DESIGNATION	SIGN
1	MRS.SATHIYA.S, AP/CSE	Chair person	
2	DR.VENKATA RAMANA.K. AP/CSE	HOD	
3	MRS.AMUTHIA.S, AP/CSE	Member	
4	MRS.ANDAL.R, AP/CSE	Member	
5	MR.DHANAPAL.M, AP/CSE	Member	
6	LAVANYA R	Student Representative	
7	MUTHAMIZHSELVAN K	Student Representative	
8	MUTHULAKSHMI K		

Copy to:

- 1.Circulate among staff members.
- 2.Class advisor File.
- 3.Third –year Students.

K. Venk
HOD



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19 –EVEN SEM

Date : 22.12.2018

Minutes of meeting

The first class committee meeting for VI Semester CSE was held on 22.12.2018 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MRS.SATHIYA.S, AP/CSE	Chair person	
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	
3	MRS.AMUYHA.S, AP/CSE	Member	
4	MRS.ANDAL.R, AP/CSE	Member	
5	MR.DHANAPAL.M, AP/CSE	Member	
6	LAVANYA R	Student Representative	
7	MUTHAMIZHSELVAN K	Student Representative	
8	MUTHULAKSHMI K		

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the Students To Select The Elective Subject.
5	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.

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1.Circulate among staff members.

HOD

2.Class advisor File.



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19 –EVEN SEM

Date : 21.12.2018

CIRCULAR

The first class committee meeting for IV semester CSE is to be held in the HOD cabin on 24.12.2018 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

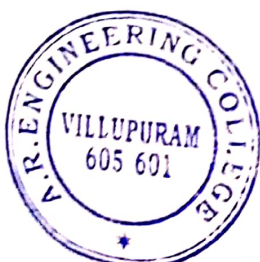
- Discuss text books and reference books.
- Maintain proper dress code and class attendance.
- Arrangement for guest lecture / seminar for students.
- Secure good marks in internal assessment exams.
- Value-added courses for students.

S.NO	NAME	DESIGNATION	SIGN
1	MR.MUTHUKUMARAN.K, AP/CSE	Chair person	Muthukumaran
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	K. Veng
3	MRS.AMUYHA.S, AP/CSE	Member	Amuyha
4	MRS.SATHIYA.S, AP/CSE	Member	Sathiya
5	MRS.GEETHA.T, AP/CSE	Member	Geetha
6	MANIKANDAN P	Student Representative	Manikandan
7	NIVETHA R	Student Representative	Nivetha
8	PREMKUMAR P	Student Representative	Premkumar

Copy to:

- 1.Circulate among staff members.
- 2.Class advisor File.
- 3.second – year students

K. Veng
HOD



7

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING REF :

AREC / CSE/01 /2018-19-EVEN SEM

Date : 24.12.2018

Minutes of meeting

The first class committee meeting for IV Semester CSE was held on 24.12.2018 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR.MUTHUKUMARAN.K, AP/CSE	Chair person	<i>[Signature]</i>
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	<i>[Signature]</i>
3	MRS.AMUYHA.S, AP/CSE	Member	<i>[Signature]</i>
4	MRS.SATHIYA.S, AP/CSE	Member	<i>[Signature]</i>
5	MRS.GEETHA.T, AP/CSE	Member	<i>[Signature]</i>
6	MANIKANDAN P	Student Representative	<i>[Signature]</i>
7	NIVETHA R	Student Representative	<i>[Signature]</i>
8	PREMKUMAR P		<i>[Signature]</i>

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.

Copy

1. Circulate among staff members.

2. Class advisor File.

[Signature]
HOD



[Signature]
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE /01 /2018-19 –EVEN SEM

Date :29.01.2019

CIRCULAR

The second class committee meeting for VIII semester CSE is to be held in the HOD cabin on **30.01.2019** at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- University result analysis for the previous semester.
- Status of the project work and conduct review for students.
- Internship benefits.
- Students gets fellowships in various project in reputed organization.

S.NO	NAME	DESIGNATION	SIGN
1	MRS.GEETHA.T, AP/CSE	Chair person	
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	
3	MS.SUBATHIRADEVI.M,AP/CSE	Member	
4	MR.PUSHPARAJ.E, AP/CSE	Member	
5	MR.DINESH BABU.P, AP/CSE	Member	
6	JAYARAJ J	Student Representative	
7	SARASWATHY.V	Student Representative	

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5. Class advisor File.
6. Final – year students.

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19 –EVEN SEM

Date : 30.01.2019

Minutes of meeting

The second class committee meeting for VIII Semester CSE was held on 30.01.2019 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MRS.GEETHA.T, AP/CSE	Chair person	<i>Geetha</i>
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	<i>K. V. Ramana</i>
3	MS.SUBATHIRADEVI.M,AP/CSE	Member	<i>Subathiradevi</i>
4	MR.PUSHPARAJE, AP/CSE	Member	<i>Pushparaje</i>
5	MR.DINESH BABU.P, AP/CSE	Member	<i>Dinesh Babu</i>
6	JAYARAJ J	Student Representative	<i>Jayaraj</i>
7	SARASWATHY.V	Student Representative	<i>Saraswathy</i>

S.NO	Points discussed	Action taken
1	HOD instructed the students to submit their details for the convocation and clear the fees due.	Class advisor collect the data sheet of students and prepare the convocation details.
2	HOD instructed the students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve their skills through an internship and in-plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	Students were instructed to update the current status of the project.	A final review was conducted by the coordinator who informed to submit the final report and project kit to the guide.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.
6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposium to	Display the brochures of various events conducted by the other institution on the

10



[Signature]
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

	develop their knowledge.	notice board. And encourage the students to participate.
8	HOD instructed the students to register for apprenticeships in government and private industries.	HOD explain the process of registration for apprenticeship and its benefits to the students.

K. Varghese
HOD

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1. Circulate among staff members.
2. Class advisor File.



R. Panneerdhass
Dr. R. PANNEERDHASS, M.E., Ph.D.,
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19 –EVEN SEM

Date : 29.01.2019

CIRCULAR

The second class committee meeting for VI semester CSE is to be held in the HOD cabin on 30.01.2019 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.
- Status of the mini –project.
- Actively participate in paper presentations and symposiums.

S.NO	NAME	DESIGNATION	SIGN
1	MRS.SATHIYA.S, AP/CSE	Chair person	<i>Sathiyas</i>
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	<i>K. Venk</i>
3	MRS.AMUYHA.S, AP/CSE	Member	<i>Amuyha</i>
4	MRS.ANDAL.R, AP/CSE	Member	<i>Andal</i>
5	MR.DHANAPAL.M, AP/CSE	Member	<i>Dhanapal</i>
6	LAVANYA R	Student Representative	<i>Lavanya</i>
7	MUTHAMIZHSELVAN K	Student Representative	<i>Muthamizh</i>
8	MUTHULAKSHMI K	Student Representative	<i>Muthulakshmi</i>

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- 1.Circulate among staff members.
- 2.Class advisor File.
- 3.Third –year Students.

K. Venk
HOD



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[Signature]
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19 –EVEN SEM

Date : 30.01.2019

Minutes of meeting

The second class committee meeting for VI Semester CSE was held on 30.01.2019 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MRS.SATHIYA.S, AP/CSE	Chair person	
2	DR.VENKATA RAMANA.K, AP/ CSE	HOD	
3	MRS.AMUYHA.S, AP/CSE	Member	
4	MRS.ANDAL.R, AP/CSE	Member	
5	MR.DHANAPAL.M, AP/CSE	Member	
6	LAVANYA R	Student Representative	
7	MUTHAMIZHSELVAN K	Student Representative	
8	MUTHULAKSHMI K	Student Representative	

S.NO	Points discussed	Action taken
1	The Students were advised again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
2	HOD instructed the Students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve the skills through an internship and in –plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advised to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.

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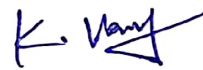
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various events conducted by the other institution on the notice board. And encourage the students to participate.

COPY:

1.Circulate among staff members.

2.Class advisor File.


HOD



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Dr. R. PANNEERDHASS, M.E., Ph.D.,
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19 –EVEN SEM

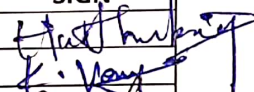
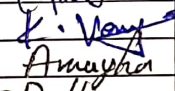
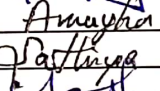
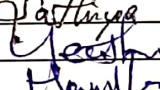
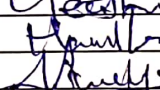
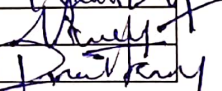
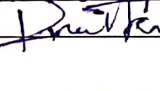
Date : 29.01.2019

CIRCULAR

The second class committee meeting for IV semester CSE is to be held in the HOD cabin on 31.01.2019 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.

S.NO	NAME	DESIGNATION	SIGN
1	MR.MUTHUKUMARAN.K, AP/CSE	Chair person	
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	
3	MRS.AMUYHA.S, AP/CSE	Member	
4	MRS.SATHIYA.S, AP/CSE	Member	
5	MRS.GEETHA.T, AP/CSE	Member	
6	MANIKANDAN P	Student Representative	
7	NIVETHA R	Student Representative	
8	PREMKUMAR P	Student Representative	

Copy to:

1. Circulate among staff members.
2. Class advisor File.
3. second - year students


HOD


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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CSE/01 /2018-19-EVEN SEM

Date : 30.01.2019

Minutes of meeting

The second class committee meeting for IV Semester CSE was held on 30.01.2019 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR.MUTHUKUMARAN.K, AP/CSE	Chair person	<i>Muthukumar</i>
2	DR.VENKATA RAMANA.K. AP/ CSE	HOD	<i>K. Venk</i>
3	MRS.AMUYHA.S, AP/CSE	Member	<i>Amulya</i>
4	MRS.SATHIYA.S, AP/CSE	Member	<i>Sathy</i>
5	MRS.GEETHA.T, AP/CSE	Member	<i>Geetha</i>
6	MANIKANDAN P	Student Representative	<i>Manikandan</i>
7	NIVETHA R	Student Representative	<i>Nivetha</i>
8	PREMKUMAR P		<i>Premkumar</i>

S.NO	Points discussed	Action taken
1	The Students were advised again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
2	HOD instructed the Students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve the skills through an internship and in -plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advised to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.



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[Signature]
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various events conducted by the other institution on the notice board. And encourage the students to participate.

Copy

1. Circulate among staff members.
2. Class advisor File.

K. Venu
HOD



17

Dr. R. Panneerohassan
Dr. R. PANNEEROHASSAN, M.E., Ph.D.
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KAPPIYAMPULIYUR POST
VILLUPURAM-605 601



Question Paper Code : 10318

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020/
APRIL/MAY 2021

Fourth/Fifth Semester

Computer Science and Engineering

CS 8494 - SOFTWARE ENGINEERING

(Common to Computer and Communication Engineering /Information Technology)
(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART - A

(10×2=20 Marks)

1. List out the goals of software engineering.
2. What are the various categories of software ?
3. List out the characteristics of good SRS.
4. Name any two requirement elicitation techniques.
5. Differentiate internal and external design.
6. List out the various types of cohesion and coupling.
7. Mention the software testability checklist.
8. How black box testing is differing from white box testing ?
9. What are the processes of risk management ?
10. List out the various steps in planning process.

PART - B

(5×13=65 Marks)

11. a) Compare and contrast waterfall model, spiral model and iterative model.

(OR)

- b) Define Agile Programming. Explain the 12 practices of extreme programming.




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12. a) With suitable example explain the functional and non-functional requirements.(OR)

b) Describe how Software requirements are documented. State the importance of documentation.

13. a) What are the different types of architectural styles exist for software and explain any software architecture in detail ?

(OR)

b) Explain the core activities involved in User Interface design process with necessary block diagram.

14. a) Explain equivalence partitioning technique with suitable example.

(OR)

b) Compare and contrast reverse engineering, forward engineering and reengineering.

15. a) Explain how effort and cost estimation are determined using cocano model.

(OR)

b) Explain the various steps involved in risk management.

PART – C (1×15=15 Marks)

16. a) Assume that you are developing a online railway reservation system. Prepare the Software Requirement Specification (SRS) document for the system.

(OR)

b) For online railway reservation system, draw the Data Flow Diagram (DFD) upto level 4.




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ACADEMIC YEAR

2019 - 2020




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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INDEX ODD SEMESTER 2019 - 2020

S. No	Contents
1	Anna university Academic Schedule
2	Academic Calendar
3	Internal Assessment Schedule



Dr. R. PANNEERCHASS, M.E., Ph.D.,
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ANNA UNIVERSITY ACADEMIC SCHEDULE



Dr. R. PANNEERDHASS, M.E., Ph.D.,
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VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 06.06.2019

ANNA UNIVERSITY, CHENNAI

ACADEMIC SCHEDULE

for the

July 2019 - December 2019 ODD SEMESTER ACADEMIC SESSION OF THE

ACADEMIC YEAR 2019 - 2020

UG & PG (Full-Time) Degree Programmes offered at Affiliated Engineering Colleges

Sl. No	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B. Tech (Full-Time)	III, V, VII	01.07.2019	19.10.2019**	21.10.2019	05.11.2019
2	B.E. / B. Tech (Part-Time)	III, V, VII				
3	B. Arch (Full-Time)	III, V, VII, IX				
4	M.E. / M. Tech / M. Arch (FT)	III				
5	M.C.A. (Full-Time)	III, V				
6	M.B.A. (Full-Time)	III				
7	M.Sc (5 Yrs - Integrated)	III, V, VII, IX				
8	M.B.A (5 Yrs - Integrated)	III, V, VII				

RE-OPENING DAY FOR THE NEXT SEMESTER: 16.12.2019 (Monday)

NOTE:

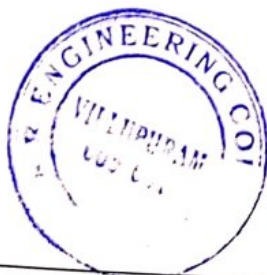
1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following 3 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	03.06.2019	Monday
2	07.06.2019	Tuesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
3	19.10.2019	Wednesday

DIRECTOR
ACADEMIC COURSES



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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 05.08.2019

ANNA UNIVERSITY, CHENNAI

ACADEMIC SCHEDULE

for the

August 2019 - December 2019 ODD SEMESTER ACADEMIC SESSION OF THE

ACADEMIC YEAR 2019 - 2020

I SEMESTER

UG (FT) Degree Programmes offered at Affiliated Engineering Colleges

Sl. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (FT)	I	05.08.2019	14.08.2019	20.11.2019**	22.11.2019	10.12.2019

RE-OPENING DAY FOR THE NEXT SEMESTER: 06.01.2020 (Monday)

NOTE:

1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	10.08.2019	Monday
2	31.08.2019	Thursday
3	07.09.2019	Friday
4	14.09.2019	Monday
5	21.09.2019	Tuesday
6	28.09.2019	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	05.10.2019	Monday
8	12.10.2019	Tuesday
9.	19.10.2019	Monday
10.	26.10.2019	Tuesday
11.	02.11.2019	Wednesday
12.	09.11.2019	Thursday
13.	16.11.2019	Friday

**DIRECTOR
ACADEMIC COURSES**

DAC - SB



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ACADEMIC CALANDAR 2019 - 2020




Dr. P. PANNERDHASS, M.E., Ph.D.,
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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

DATE	DAY	MONTH: JULY 2019	NO OF WORKING DAYS
1	Mon	Commencement of Classes for II,III,IV Year	1
2	Tue		2
3	Wed		3
4	Thu		4
5	Fri		5
6	Sat		6
7	Sun	HOLIDAY	
8	Mon		7
9	Tue		8
10	Wed		9
11	Thu		10
12	Fri		11
13	Sat		12
14	Sun	HOLIDAY	
15	Mon		13
16	Tue		14
17	Wed		15
18	Thu		16
19	Fri		17
20	Sat		18
21	Sun	HOLIDAY	
22	Mon		19
23	Tue		20
24	Wed		21
25	Thu		22
26	Fri		23
27	Sat		24
28	Sun	HOLIDAY	
29	Mon	INTERNAL ASSESMENT- I Starts II,III,IV YEAR	25
30	Tue	INTERNAL ASSESMENT- I	26
31	Wed	INTERNAL ASSESMENT- I	27



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DATE	DAY	MONTH: AUGUST 2019	NO OF WORKING DAYS
1	Thu	INTERNAL ASSESMENT- I	28
2	Fri	INTERNAL ASSESMENT- I	29
3	Sat	INTERNAL ASSESMENT- I END II,III, IV YEAR	30
4	Sun	HOLIDAY	
5	Mon	Commencement of Induction Programme for I Year	31
6	Tue		32
7	Wed		33
8	Thu		34
9	Fri		35
10	Sat		36
11	Sun	HOLIDAY	
12	Mon	BAKRID - HOLIDAY	
13	Tue		37
14	Wed	Commencement of Classes for I Year[Marked in bracket]	38(1)
15	Thu	INDEPENDENCE DAY CELEBRATION	
16	Fri		39(2)
17	Sat		40(3)
18	Sun	HOLIDAY	41(4)
19	Mon		42(5)
20	Tue		43(6)
21	Wed		44(7)
22	Thu		45(8)
23	Fri	KIRISHNA JAYANTHI - HOLIDAY	
24	Sat		46(9)
25	Sun	HOLIDAY	
26	Mon		47(10)
27	Tue		48(11)
28	Wed		49(12)
29	Thu		50(13)
30	Fri		51(14)
31	Sat		52(15)



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DATE	DAY	MONTH:SEPTEMBER 2019	NO OF WORKING DAYS
1	Sun	HOLIDAY	
2	Mon	VINAYAGAR CHATHURTHI - HOLIDAY	
3	Tue	INTERNAL ASSESMENT- II Starts II,III,IV YEAR	53(16)
4	Wed	INTERNAL ASSESMENT- II	54(17)
5	Thu	INTERNAL ASSESMENT- II TEACHER'S DAY	55(18)
6	Fri	INTERNAL ASSESMENT- II	56(19)
7	Sat	INTERNAL ASSESMENT- II	57(20)
8	Sun	HOLIDAY	
9	Mon	INTERNAL ASSESMENT- II END II,III,IV YEAR	58(21)
10	Tue	MUHARRAM - HOLIDAY	
11	Wed		59(22)
12	Thu		60(23)
13	Fri		61(24)
14	Sat		62(25)
15	Sun	HOLIDAY	
16	Mon	INTERNAL ASSESMENT- I Starts I YEAR	63(26)
17	Tue	INTERNAL ASSESMENT- I	64(27)
18	Wed	INTERNAL ASSESMENT- I	65(28)
19	Thu	INTERNAL ASSESMENT- I	66(29)
20	Fri	INTERNAL ASSESMENT- I	67(30)
21	Sat	INTERNAL ASSESMENT- I END I YEAR	68(31)
22	Sun	HOLIDAY	
23	Mon		69(32)
24	Tue		70(33)
25	Wed		71(34)
26	Thu		72(35)
27	Fri		73(36)
28	Sat		74(37)
29	Sun	HOLIDAY	
30	Mon		75(38)




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DATE	DAY	MONTH: OCTOBER 2019	NO OF WORKING DAYS
1	Tue		76(39)
2	Wed	GANDHI JAYANTHI - HOLIDAY	
3	Thu		77(40)
4	Fri		78(41)
5	Sat		79(42)
6	Sun	HOLIDAY	
7	Mon	AYUTHA POOJA - CELEBRATION	
8	Tue	VIJAYADHASAMI - HOLIDAY	
9	Wed	MODEL EXAM START II,III,IV YEAR	80(43)
10	Thu	MODEL EXAM	81(44)
11	Fri	MODEL EXAM	82(45)
12	Sat	MODEL EXAM	83(46)
13	Sun	HOLIDAY	
14	Mon	MODEL EXAM	84(47)
15	Tue	MODEL EXAM END II,III,IV YEAR	85(48)
16	Wed		86(49)
17	Thu		87(50)
18	Fri	INTERNAL ASSESMENT- II Starts I YEAR	88(51)
19	Sat	INTERNAL ASSESMENT- II Last Working day for II,III,IV year	89(52)
20	Sun	HOLIDAY	
21	Mon	INTERNAL ASSESMENT- II Commencement of practical Examinations II,III,IV year	(53)
22	Tue	INTERNAL ASSESMENT- II	(54)
23	Wed	INTERNAL ASSESMENT- II	(55)
24	Thu	INTERNAL ASSESMENT- II END I YEAR	(56)
25	Fri		(57)
26	Sat	HOLIDAY	
27	Sun	DIWALI - HOLIDAY	
28	Mon		(58)
29	Tue		(59)
30	Wed		(60)
31	Thu		(61)

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DATE	DAY	MONTH: NOVEMBER 2019	NO OF WORKING DAYS
			(62)
1	Fri		(63)
2	Sat		
3	Sun	HOLIDAY	(64)
4	Mon		(65)
5	Tue		(66)
6	Wed	Commencement of AU semester Examinations II,III,IV year	(67)
7	Thu		(68)
8	Fri		(69)
9	Sat		
10	Sun	MILAD-UN- NABI – HOLIDAY	(70)
11	Mon	MODEL EXAM START 1 YEAR	(71)
12	Tue	MODEL EXAM	(72)
13	Wed	MODEL EXAM	(73)
14	Thu	MODEL EXAM	(74)
15	Fri	MODEL EXAM	(75)
16	Sat	MODEL EXAM END 1 YEAR	
17	Sun	HOLIDAY	(76)
18	Mon		(77)
19	Tue		(78)
20	Wed	Last Working day for 1 year	
21	Thu		
22	Fri	Commencement of practical Examinations I year	
23	Sat		
24	Sun	HOLIDAY	
25	Mon		
26	Tue		
27	Wed		
28	Thu		
29	Fri		
30	Sat		




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DATE	DAY	MONTH: DECEMBER 2019	NO OF WORKING DAYS
1	Sun	HOLIDAY	
2	Mon		
3	Tue		
4	Wed		
5	Thu		
6	Fri		
7	Sat		
8	Sun	HOLIDAY	
9	Mon		
10	Tue	Commencement of AU semester Examinations I year	
11	Wed		
12	Thu		
13	Fri		
14	Sat		
15	Sun	HOLIDAY	
16	Mon		
17	Tue		
18	Wed		
19	Thu		
20	Fri		
21	Sat		
22	Sun	HOLIDAY	
23	Mon		
24	Tue		
25	Wed	CHRISTMAS HOLIDAY	
26	Thu		
27	Fri		
28	Sat		
29	Sun	HOLIDAY	
30	Mon		
31	Tue		




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KAPPIYAMPULIYUR POST,
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A.R.ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to Anna university, Chennai)
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu

INTERNAL ASSESSMENT SCHEDULE ODD SEMESTER 2019 - 20




Dr. R. PANNEERDHASS, M.E., Ph.D.,
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : Nov. / Dec. 2019 Examinations

For all UG/PG - Programmes Except 1 year (Full Time)

Report No	Report Period	Test Period	Report Entry Period
I	01-07-2019 -- 25-07-2019	No Test	25-07-2019 -- 30-07-2019
II	26-07-2019 -- 22-08-2019	16-08-2019 -- 22-08-2019	22-08-2019 -- 28-08-2019
III	24-08-2019 -- 20-09-2019	14-09-2019 -- 20-09-2019	20-09-2019 -- 25-09-2019
IV	21-09-2019 -- 19-10-2019	14-10-2019 -- 19-10-2019	19-10-2019 -- 21-10-2019

Saturdays may be included as working days to make good the Shortages, if any.


CONTROLLER OF EXAMINATIONS




DR. R. PANNEERDHASS, M.E., Ph.D.,
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

ANNA UNIVERSITY :: CHENNAI 600 025

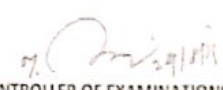
Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : Nov./ Dec. 2019 Examinations

B.E./B.Tech. UG - Programmes I semester (Full Time)

Report No	Report Period	Test Period	Report Entry Period
I	14-08-2019 -- 09-09-2019	No Test	09-09-2019 -- 14-09-2019
II	11-09-2019 -- 04-10-2019	27-09-2019 -- 04-10-2019	04-10-2019 -- 11-10-2019
III	05-10-2019 -- 29-10-2019	23-10-2019 -- 29-10-2019	29-10-2019 -- 02-11-2019
IV	30-10-2019 -- 20-11-2019	14-11-2019 -- 20-11-2019	20-11-2019 -- 21-11-2019

Saturdays may be included as working days to make good the Shortages, if any.


CONTROLLER OF EXAMINATIONS




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A.R. ENGINEERING COLLEGE
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2019 - 2020 EVEN SEMESTER INDEX

S. No	Contents
1	Anna university Academic Schedule
2	Academic Calendar
3	Internal Assessment Schedule

Dr. R. PANNEERDHASS, M.E., Ph.D.,
PRINCIPAL
A.R. ENGINEERING COLLEGE
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KAPPIYAMPULIYUR POST,
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A. R. ENGINEERING COLLEGE

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Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

ANNA UNIVERSITY ACADEMIC SCHEDULE

Dr. R. PANNEERDHASS, M.E., Ph.D.,
PRINCIPAL

A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.



Date: 03.12.2019

ANNA UNIVERSITY: : CHENNAI - 600 025

ACADEMIC SCHEDULE

ACADEMIC YEAR 2019 - 2020

December 2019 - May 2020 Session (EVEN SEMESTER - Except II Semester)

UG & PG Degree Programmes offered in Affiliated Engineering Colleges

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E / B.Tech (Full-Time)	IV, VI, VIII	16.12.2019	27.03.2020**	30.03.2020	17.04.2020
2	B.E / B.Tech (Part-Time)	IV, VI				
3	B.Arch (Full-Time)	IV, VI, VIII, X				
4	M.E / M.Tech / M.Arch (FT)	IV				
5	M.C.A. (Full-Time)	IV, VI				
6	M.B.A. (FT)	IV				
7	M.Sc (5 Yrs-Integrated)	IV, VI, VIII, X				
8	M.B.A (5 Yrs-Integrated)	IV, VI, VIII				

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2020 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following 6 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	25.01.2020	Wednesday	4	29.02.2020	Thursday
2	01.02.2020	Wednesday	5	07.03.2020	Friday
3	15.02.2020	Wednesday	6	21.03.2020	Wednesday

DIRECTOR
ACADEMIC COURSES

Dr. R. PANNEERDHASS, M.E., Ph.D.,
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
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ANNA UNIVERSITY
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Office: +91 84 2235 7004
Fax: +91 84 2235 1896
E-mail: registrar@annauniv.edu

REGISTRAR

07.01.2020

CIRCULAR

FOR THE KIND ATTENTION OF THE PRINCIPALS OF AFFILIATED ENGINEERING COLLEGES, ANNA UNIVERSITY, CHENNAI

This is to inform that the Government of Tamil Nadu has announced to declare holidays for the students in Universities & Colleges from 21.12.2019 to 01.01.2020 on account of festivals and rural local body election 2019 in 27 Districts in the State.

In this connection, the following Saturdays will be working days to conduct classes for the students of Even Semester (except II semester) of UG & PG of Affiliated Institutions as per the time table schedule given below in addition to the Saturdays as per the academic schedule (Dec 2019 - May 2020) session.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	11.12.2019	Monday
2	18.12.2019	Tuesday
3	25.12.2019	Wednesday
4	01.01.2020	Thursday

REGISTRAR


DR. R. PANNEERDHASS, M.E., Ph.D.
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.



REVISED

ANNA UNIVERSITY: CHENNAI - 600 025

ACADEMIC SCHEDULE

for the

January 2020 - May 2020 (Even Semester - II Semester) Session of the

ACADEMIC YEAR 2019 - 2020

UG Degree Programmes offered in Affiliated Engineering Colleges

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech. (Full-Time)	II				
2	B.Arch. (Full-Time)	II	20.01.2020	24.04.2020**	27.04.2020	11.05.2020
3	B.E. / B.Tech. (Part-Time)	II				

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2020 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following 5 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	25.01.2020	Wednesday	6	21.03.2020	Monday
2	01.02.2020	Wednesday	7	28.03.2020	Friday
3	15.02.2020	Thursday	8	04.04.2020	Tuesday
4	29.02.2020	Friday	9	18.04.2020	Monday
5	07.03.2020	Wednesday			

DIRECTOR
ACADEMIC COURSES

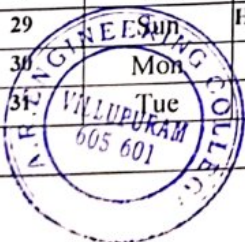
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[Signature]
Dr. R. PANNEERDHASS, M.E., Ph.D.,
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A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

ACADEMIC CALENDAR : [Even Semester DEC 2019 – MAY 2020]

DATE	DAY	MONTH: DECEMBER 2019	NO OF WORKING DAYS
1	Sun	HOLIDAY	
2	Mon		
3	Tue		
4	Wed		
5	Thu		
6	Fri		
7	Sat		
8	Sun	HOLIDAY	
9	Mon		
10	Tue	Commencement of AU semester Examinations I year	
11	Wed		
12	Thu		
13	Fri		
14	Sat		
15	Sun	HOLIDAY	
16	Mon	Commencement of Classes for II,III,IV Year	1
17	Tue		2
18	Wed		3
19	Thu		4
20	Fri		5
21	Sat		6
22	Sun	HOLIDAY	
23	Mon		7
24	Tue		8
25	Wed	CHRISTMAS HOLIDAY	
26	Thu		9
27	Fri		10
28	Sat		11
29	Sun	HOLIDAY	
30	Mon		12
31	Tue		13



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 VILLUPURAM-605 601.

DATE	DAY	MONTH: JANUARY 2020	NO OF WORKING DAYS
1	Wed	NEW YEAR- HOLIDAY	
2	Thu		14
3	Fri		15
4	Sat		16
5	Sun	HOLIDAY	
6	Mon	INTERNAL ASSESMENT- I Starts II,III,IV YEAR	17
7	Tue	INTERNAL ASSESMENT- I	18
8	Wed	INTERNAL ASSESMENT- I	19
9	Thu	INTERNAL ASSESMENT- I	20
10	Fri	INTERNAL ASSESMENT- I	21
11	Sat	INTERNAL ASSESMENT- I END II,III,IV YEAR	22
12	Sun	HOLIDAY	
13	Mon		23
14	Tue		24
15	Wed	PONGAL -HOLIDAY	
16	Thu	THIRUVALLUVAR DAY-HOLIDAY	
17	Fri	UZHAVAR THIRUNAL-HOLIDAY	
18	Sat		25
19	Sun	HOLIDAY	
20	Mon	Commencement of Classes for I Year	26(1)
21	Tue		27(2)
22	Wed		28(3)
23	Thu		29(4)
24	Fri	Sports-Cricket[Boys]	30(5)
25	Sat	Sports- Kabaddi [Boys]	31(6)
26	Sun	REPUBLIC DAY- CELEBRATION	
27	Mon		32(7)
28	Tue		33(8)
29	Wed	Sports-Volley Ball[Boys, Girls]	34(9)
30	Thu	Sports-Throw Ball[Boys, Girls]	35(10)
31	Fri	Sports-badminton [Boys, Girls]	36(11)

Dr.R.PANNEERDHASS, M.E., Ph.D.,
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VILLUPURAM-605 601.



DATE	DAY	MONTH: FEBRUARY 2020	NO OF WORKING DAYS
1	Sat		37(12)
2	Sun	HOLIDAY	
3	Mon	INTERNAL ASSESMENT- II Starts II,III,IV YEAR	38(13)
4	Tue	INTERNAL ASSESMENT- II	39(14)
5	Wed	INTERNAL ASSESMENT- II	40(15)
6	Thu	INTERNAL ASSESMENT- II	41(16)
7	Fri	INTERNAL ASSESMENT- II	42(17)
8	Sat	INTERNAL ASSESMENT- II END II,III,IV YEAR	43(18)
9	Sun	HOLIDAY	
10	Mon	INTERNAL ASSESMENT- I Starts I YEAR	44(19)
11	Tue	INTERNAL ASSESMENT- I	45(20)
12	Wed	INTERNAL ASSESMENT- I	46(21)
13	Thu	INTERNAL ASSESMENT- I	47(22)
14	Fri	INTERNAL ASSESMENT- I	48(23)
15	Sat	INTERNAL ASSESMENT- I END I YEAR	49(24)
16	Sun	HOLIDAY	
17	Mon		50(25)
18	Tue		51(26)
19	Wed		52(27)
20	Thu		53(28)
21	Fri	SPORTS DAY & ANNUAL DAY CELEBRATION	54(29)
22	Sat		55(30)
23	Sun	HOLIDAY	
24	Mon		56(31)
25	Tue		57(32)
26	Wed		58(33)
27	Thu		59(34)
28	Fri		60(35)
29	Sat		61(36)



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DATE	DAY	MONTH: MARCH 2020	NO OF WORKING DAYS
1	Sun	HOLIDAY	
2	Mon		62(37)
3	Tue		63(38)
4	Wed		64(39)
5	Thu		65(40)
6	Fri		66(41)
7	Sat		67(42)
8	Sun	HOLIDAY	
9	Mon	INTERNAL ASSESMENT II START I YEAR MODEL EXAM START II,III,IV YEAR	68(43)
10	Tue	INTERNAL ASSESMENT II MODEL EXAM	69(44)
11	Wed	INTERNAL ASSESMENT II MODEL EXAM	70(45)
12	Thu	INTERNAL ASSESMENT II MODEL EXAM	71(46)
13	Fri	INTERNAL ASSESMENT II MODEL EXAM	72(47)
14	Sat	INTERNAL ASSESMENT II END I YEAR MODEL EXAM END II,III,IV YEAR	73(48)
15	Sun	HOLIDAY	
16	Mon		74(49)
17	Tue		75(50)
18	Wed		76(51)
19	Thu		77(52)
20	Fri		78(53)
21	Sat		79(54)
22	Sun	HOLIDAY	
23	Mon		80(55)
24	Tue		81(56)
25	Wed	TELUGU NEW YEAR - HOLIDAY	
26	Thu		82(57)
27	Fri	Last Working day for II,III,IV year	83(58)
28	Sat		(59)
29	Sun	HOLIDAY	
30	Mon	Commencement of practical Examinations II,III,IV year	(60)
31	Tue		



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VILLUPURAM-605 601.

DATE	DAY	MONTH: APRIL 2020	NO OF WORKING DAYS
1	Wed		(61)
2	Thu	MODEL EXAM START I YEAR	(62)
3	Fri	MODEL EXAM	(63)
4	Sat	MODEL EXAM	(64)
5	Sun	HOLIDAY	
6	Mon	MAHAVEER JAYANTHI-HOLIDAY	
7	Tue	MODEL EXAM	(65)
8	Wed	MODEL EXAM	(66)
9	Thu	MODEL EXAM END I YEAR	(67)
10	Fri	GOOD FRIDAY-HOLIDAY	
11	Sat		(68)
12	Sun	HOLIDAY	
13	Mon		(69)
14	Tue	TAMIL NEW YEAR	
15	Wed		(70)
16	Thu		(71)
17	Fri	Commencement of AU semester Examinations II,III,IV year	(72)
18	Sat		(73)
19	Sun	HOLIDAY	
20	Mon		(74)
21	Tue		(75)
22	Wed		(76)
23	Thu		(77)
24	Fri	Last Working day for I year	(78)
25	Sat		
26	Sun	HOLIDAY	
27	Mon	Commencement of practical Examinations I year	
28	Tue		
29	Wed		
30	Thu		

Dr. R. PANNEERDHASS, M.E., Ph.D.

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DATE	DAY	MONTH: MAY 2020	NO. OF WORKING DAYS
1	Fri	MAY-DAY	
2	Sat		
3	Sun	HOLIDAY	
4	Mon		
5	Tue		
6	Wed		
7	Thu		
8	Fri		
9	Sat		
10	Sun	HOLIDAY	
11	Mon	Commencement of AU semester Examinations I year	
12	Tue		
13	Wed		
14	Thu		
15	Fri		
16	Sat		
17	Sun	HOLIDAY	
18	Mon		
19	Tue		
20	Wed		
21	Thu		
22	Fri		
23	Sat		
24	Sun	HOLIDAY	
25	Mon	RAMZAN-HOLIDAY	
26	Tue		
27	Wed		
28	Thu		
29	Fri		
30	Sat		
31	Sun	HOLIDAY	



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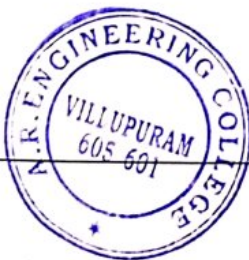


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INTERNAL ASSESSMENT SCHEDULE EVEN SEMESTER 2019 - 2020

Dr.R.PANNEERDHASS, M.E., Ph.D.,
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ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : April/ May 2020 Examinations

For all UG/PG - Programmes Except II Semester (Full Time/Part Time)

Report No	Report Period	Test Period	Report Entry Period
I	16-12-2019 -- 11-01-2020	No Test	11-01-2020 -- 24-01-2020
II	13-01-2020 -- 08-02-2020	04-02-2020 -- 08-02-2020	08-02-2020 -- 13-02-2020
III	10-02-2020 -- 03-03-2020	27-02-2020 -- 03-03-2020	03-03-2020 -- 07-03-2020
IV	04-03-2020 -- 27-03-2020	21-03-2020 -- 27-03-2020	27-03-2020 -- 29-03-2020

UG - Programmes II Semester (B.E./B.Tech - Full Time/Part Time & B.Arch)

Report No	Report Period	Test Period	Report Entry Period
I	20-01-2020 -- 05-02-2020	No Test	05-02-2020 -- 10-02-2020
II	06-02-2020 -- 29-02-2020	25-02-2020 -- 29-02-2020	29-02-2020 -- 05-03-2020
III	02-03-2020 -- 26-03-2020	21-03-2020 -- 26-03-2020	26-03-2020 -- 31-03-2020
IV	27-03-2020 -- 24-04-2020	20-04-2020 -- 24-04-2020	24-04-2020 -- 26-04-2020

Saturdays may be included as working days to make good the Shortages, if any.


CONTROLLER OF EXAMINATIONS


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A. R. ENGINEERING COLLEGE

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Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

SUBJECT ALLOCATION




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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DEPARTMENT OF CIVIL ENGINEERING

CIRCULAR

(2019-2020 ODD SEM)

CIR.No.:AREC/CIVIL/CIR/01

Date:28.06.2019

It is to inform that subject allocation meeting for the forth coming semester JULY2019 - NOV2019 will be held on **29.06.2019** at 10.00 am in the Department of Civil. All the faculty members are requested to attend the meeting without fail. The list of available subjects for the semester and the subject preferences form are enclosed with this circular. All the staff members are requested to fill up the preferences form enclosed.



Aufh B.
HOD

[Signature]
Dr. R. PANNEERDHASS, M.E., Ph.D.,
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DEPARTMENT OF CIVIL ENGINEERING

SUBJECT LIST ACADEMIC YEAR (2019 – 2020)

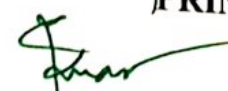
ODD SEM – THIRD YEAR

S.NO	YEAR	SUBJECT CODE	SUBJECT NAME
1	III / V	CE8502	Structural Analysis I
2	III / V	EN8491	Water Supply Engineering
3	III / V	CE8501	Design of Reinforced Cement Concrete Elements
4	III / V	GE 8071	Disaster Management (PE)
5	III / V	CE8591	Foundation Engineering
6	III / V	ORO551	Renewable energy sources (OE)
7	III / V	CE8511	Soil Mechanics Laboratory
8	III / V	CE8513	Survey Camp
9	III / V	CE8512	Water And Waste Water Analysis Lab


HOD




PRINCIPAL


Dr. R. PANNEERDHASS, M.E., Ph.D.,
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FINAL YEAR

S.NO	YEAR	SUBJECT CODE	SUBJECT NAME
1	IV / VII	CE6702	Prestressed Concrete Structure
2	IV / VII	CE6701	Structural Dynamics & Earthquake Engineering
3	IV / VII	CE6704	Estimation and Quantity Surveying
4	IV / VII	EN6501	Municipal Solid Waste Management
5	IV / VII	CE6007	Housing Planning & Management
6	IV / VII	CE6703	Water Resoures & Irrigation Engineering
7	IV / VII	CE6712	Design Project
8	IV / VII	CE6711	Computer Aided Design & Drafting lab

Smith B.
HOD



Dr. R. Panneerdhass
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Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT PREFERENCES FORM - (ODD SEM)

PERIOD: JUL 2019 - NOV 2019

S. NO	STAFF NAME	THEORY 1		THEORY 2		PRACTICAL		SIGN
		OPT- 1	OPT- 2	OPT- 1	OPT- 2	OPT- 1	OPT- 2	
1	MRS. KAVERI S	CE8501				CE8513		S. Kaveri
2	MR. THIRUVENKADAM M	EN8491				CE6711		M. Thiruv
3	MR. ANANDHA KUMAR B	CE8702		EN6501				B. Anandha
4	MR. ELAYARAJA K	CE8591		CE6701				K. Elayaraj
5	MRS. SUGANYA S	CE8591		CE6007				S. Suganya
6	MR. ARIVUDAI NAMBI R	DR0551				CE6712		R. Arivudai
7	MS. PAVITHRA K	CE8511		CE6704				K. Pavithra
8	MS. THULABAMANI D	CE6703				CE8512		D. Thulabamani

Note : Kindly enter only the subject code of your preferred subject.




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DEPARTMENT OF CIVIL ENGINEERING

CONSOLIDATED TIME TABLE (2019 - 2020) ODD SEMESTER

TIME	YEAR / SEM	09.30 AM-10.20AM	10.20AM-11.10AM	11.10AM-11.25AM	11.25AM-12.15PM	12.15PM-01.00PM	01.00PM-1.35PM	1.35PM-2.20PM	2.20PM-3.05PM	3.05PM-3.15PM	3.15PM-4.00PM
Monday	III / V	1	2		3	4		5	6		7
	IV / VII	DRC	EQS		SAI			RES			FE
Tuesday	III / V		RES		WR&IE			MSW	HPM		PCS
	IV / VII		SD&EE		DM			WSE	W&W LAB		W&W
Wednesday	III / V		SAI		EQS			PCS	CADD LAB		CADD
	IV / VII		HPM		DRC			FE	RES		DM
Thursday	III / V		WSE		SD&EE			MSW	DP		WR
	IV / VII		PSC		RES			SAI			DM
Friday	III / V		DM		MSW			HPM			SD
	IV / VII		WR&IE		FE			DRC	SM LAB		SOIL MECH
Saturday	III / V		FE		PCS			EQS			WR&IE
	IV / VII		MSW		DRC			WSE	FE		WSE
					PSC			HPM			DP



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DEPARTMENT OF CIVIL ENGINEERING
WORK LOAD (2019 - 2020) ODD SEMESTER

S.NO	NAME OF THE FACULTY	YEAR/SEM	ALLOTTED SUBJECTS	THEORY+ PRATICAL
1	Mr.B.Anandha kumar, HOD/Civil	III / V	CE6702 / Prestressed Concrete Structures	1
2	Mrs.S.Kaveri, AP/Civil	III / V	CE8501 / Design of Reinforced Cement Concrete Elements	1+1
3	Ms.SS.Nivetha, AP/Civil	III / V	CE8513 / Survey Camp	1+1
4	Mr.M.Thiruvankadam, AP/Civil	III / V	CE8502 / Structural Analysis I	1+1
5	Mr.K.Elaiyaraja, Asp/Civil	IV / VII	CE6711 / Computer Aided Design and Drafting Lab	2
6	Mrs.S.Suganya, AP/Civil	III / V	EN8491 / Water Supply Engineering	2
7	Mr.R.Arivudai Nambi, AP/Civil	IV / VII	EN6501 / Municipal Solid Waste Management	2
8	Ms.K.Pavithra, AP/Civil	III / V	CE8591 / Foundation Engineering	1+1
9	Ms.D.Thulbamani, AP/Civil	IV / VII	CE6701/Structural Dynamics and Earthquake Engg Engineering	1+1
		III / V	GE8071 / Disaster Management	2
		IV / VII	CE6007/ Housing Planning and Management	2
		III / V	ORO 551 / Renewable Energy Sources	1+1
		IV / VII	CE6712 / Design Project	1+1
		III / V	CE8511 / Soil Mechanics Laboratory	1+1
		IV / VII	CE6704 / Estimation And Quantity Surveying	1+1
		III / V	CE8512 / Water and Waste water Analysis Laboratory	1+1
		IV / VII	CE6703/Water Resources and Irrigation Engineering	1+1

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THIRD YEAR CLASS TIME TABLE (2019 - 2020) ODD SEMESTER

TIME	9.30 AM-10.20AM	10.20AM-11.10AM	11.10AM-11.25AM	11.25AM-12.15PM	12.15PM-01.00PM	01.00PM-1.35PM	1.35PM-2.20PM	2.20PM-3.05PM	3.05PM-3.15PM	3.15PM-4.00PM	4.00PM-4.45PM
DAY	1	2		3	4	5	6	7	8		
Monday	DRC	RES	SA I	DM	W&W LAB	RES	FE	DM			
Tuesday	RES	SA I	DM	DRC	RES	SA I	SM LAB	FE			
Wednesday	SA I	W&W LAB	RES	FE	DM	W&W LAB	RES	DM	W&W LAB		
Thursday	W&W LAB	DM	FE	RES	DM	FE	DM	DM	FE		
Friday	DM	FE	RES	FE	RES	FE	DM	DM	FE		
Saturday	FE	RES	FE	RES	FE	DM	FE	DM			

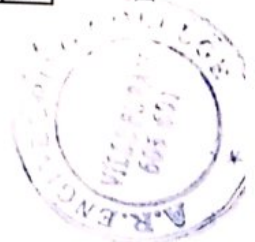
SUB	SUB CODE / SUB NAME	STAFF HANDLED	TOTAL HRS
DRC	CE8501 / Design of Reinforced Cement Concrete Elements	Mrs.S.Kaveri, AP/Civil	6
SA-I	CE8502 / Structural Analysis I	Ms.SS.Nivetha, AP/Civil	6
W&W LAB	EN8491 / Water Supply Engineering	Mr.M.Thiruvengadam, AP/Civil	6
FE	CE8591 / Foundation Engineering	Mr.K.Elajaraja, Asp/Civil	6
DM	GE8071 / Disaster Management	Mrs.S.Suganya, AP/Civil	6
RES	ORO 551 / Renewable Energy Sources	Mr.R.Arivudai Nambi, AP/Civil	6
SOIL LAB	CE8511 / Soil Mechanics Laboratory	Ms.K.Pavithra, AP/Civil	3
W&W LAB	CE8512 / Water and Waste water Analysis Laboratory	Ms.D.Thulbamani, AP/Civil	3
CAMP	CE8513 / Survey Camp	Mrs.S.Kaveri, AP/Civil	3

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FINAL YEAR CLASS TIME TABLE (2019 - 2020) ODD SEMESTER

TIME	9.30 AM-10.20AM	10.20AM-11.10AM	11.10AM-11.25AM	11.25AM-12.15PM	12.15PM-01.00PM	01.00PM-1.35PM	1.35PM-2.20PM	2.20PM-3.05PM	3.05PM-3.15PM	3.15PM-4.00PM	4.00PM-4.45PM
DAY	1	2	3	4			5	6	7	8	
Monday	EQS	EQS	WR&IE	WR&IE	LUNCH		MSW	HPM	PCS	SD&EE	
Tuesday	SD&EE		EQS	EQS			PCS	CADD LAB /			
Wednesday	HPM		SD&EE	SD&EE			MSW	DP		CADD LAB	
Thursday	PCS		MSW	MSW				HPM		WR&IE	
Friday	WR&IE		PCS	PCS				EQS		SD&EE	
Saturday	MSW		PSC	EQS				HPM	WR&IE	MSW	LIB

SUB	SUB CODE / SUB NAME	STAFF HANDLED	TOTAL HRS
SD&EE	CE6701/Structural Dynamics and Earthquake Engg Engineering	Mr.K.Elaiyaraaja, Asp/Civil	7
PSC	CE6702 / Prestressed Concrete Structures	Mr.B.Anandha kumar, AP/Civil	7
WR&IE	CE6703/Water Resources and Irrigation Engineering	Ms.D.Thulbamani, AP/Civil	7
EQS	CE6704 / Estimation And Quantity Surveying	Ms.K.Pavithra, AP/Civil	7
HPM	CE6007/ Housing Planning and Management	Mrs.S.Suganya, AP/Civil	7
MSW	EN6501 / Municipal Solid Waste Management	Mr.M.Thiruvankadam, AP/Civil	7
CADD LAB	CE6711 / Computer Aided Design and Drafting Lab	Ms.SS.Nivetha, AP/Civil	3
PROJECT	CE6712 / Design Project	Mr.R.Arivudai Nambi, AP/Civil	2



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DEPARTMENT OF CIVIL ENGINEERING

REF : AREC / CIVIL/01

Date :02.07.2019

CIRCULAR

It is planned to conduct the course committee meeting for the course CE8501 – DESIGN OF REINFORCED CONCRETE STRUCTURAL ELEMENTS meeting will be held on 03.07.2019 at CIVIL Staff room 1.15 Pm. The following staff members those who are handling the above course are requested to attend the meeting in time without fail.

CONVENER :

MR. ANANDHA KUMAR.B, AP/ CIVIL - *Anandha Kumar.B*

COMMITTEE MEMBERS :

1. MRS.S.KAVERI AP/ CIVIL - *S. Kaveri*
2. MR.K.ELAYARAJA AP/CIVIL - *K. Elayaraja*

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Anandha Kumar.B
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DEPARTMENT OF CIVIL ENGINEERING

REF : AREC /CIVIL/ 01

Date :04.07.2019

MINUTES OF MEETING

The course committee meeting for the course CE8501- DESIGN OF REINFORCED CONCRETE STRUCTURAL ELEMENTS was conducted on 03.07.2019 at CIVIL Staff room at 1.10 pm. The following staff members were present.

CONVENER :

MR. ANANDHA KUMAR.B, AP/ CIVIL

COMMITTEE MEMBERS :

1. MRS.S.KAVERI AP/ CIVIL -
2. MR.K.ELAYARAJA AP/CIVIL --

The following discussions are made :

1. The staff members are instructed to complete first and second units on or before 03.08.2019.
2. The staff members are instructed to conduct daily test in their class hours itself.
3. Counseling to be done for those students who are obtained less than 50% of marks in the class test to improve their performance in forthcoming tests.
4. Staff are instructed to check the class notes of the students regularly.

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COURSE PLAN

INDEX

ODD SEMESTER 2019- 2020

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6	INTERNAL ASSESSMENT MARK LIST	13
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COURSE PLAN

ACADEMIC YEAR 2019-2020

ODD SEMESTER

NAME OF THE FACULTY: Mrs.S.KAVERI

SUBJECT CODE & NAME: CE5501 & DESIGN OF REINFORCED CONCRETE
STRUCTURAL ELEMENTS

CREDITS:03

L-T-P-C :3-0-0-3

YEAR/SEMESTER:III/V

DEGREE/BRANCH:B.E/CIVIL ENGINEERING

SYLLABUS

CE5501DESIGN OF REINFORCED CONCRETE STRUCTURAL ELEMENTS L T P C
3 0 0 3

OBJECTIVES:

The student should be made to:

- To introduce the different design philosophy for reinforced concrete and discuss the limit state method of design of RC rectangular beams.
- To learn the concept in the design of RC flanged beams and design for shear and torsion and design of RC slabs and staircase, short RC columns, RC footing for walls, pad, sloped and combined rectangular footings.

UNIT I METHODS OF DESIGN OF CONCRETE STRUCTURES 9

Concept of Elastic method, ultimate load method and limit state method – Working stress method as detailed in IS code - Design of Singly Reinforced beam by working stress method - Limit State philosophy as detailed in IS code - Advantages of Limit State Method over other methods – Analysis and design of singly and doubly reinforced rectangular beams by limit State Method.

UNIT II LIMIT STATE METHOD - FLANGED BEAM, SHEAR & TORSION 9




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Analysis and design of flanged beams – Use of design aids for Flexure - Behaviour of RC members in bond and Anchorage - Design requirements as per current code - Behaviour of RC beams in shear and torsion - Design of RC members for combined bending, shear and torsion - serviceability.

UNIT III LIMIT STATE DESIGN OF SLABS AND STAIRCASE 9

Analysis and design of cantilever, one way, two way and continuous slabs subjected to uniformly distributed load for various boundary conditions- Types of Staircases – Design of dog-legged Staircase –Introduction to Flat Slab.

UNIT IV LIMIT STATE DESIGN OF COLUMNS 9

Types of columns – Design of short Rectangular and circular columns for axial, uniaxial and biaxial bending.

UNIT V LIMIT STATE DESIGN OF FOOTING 9

Design of wall footing – Design of axially and eccentrically loaded rectangular pad and sloped footings – Design of combined rectangular footing for two columns only.

TOTAL: 45 PERIODS

OUTCOMES:

At the end of the course, the student would be able to:

- Know the various design concepts and design RC rectangular beams by working stress and limit state methods
- Understand the design of flanged beams, design for shear and torsion, and anchorage and development length.
- Design a RC slabs and staircase and draw the reinforcement detailing.
- Design short columns for axial, uni-axial and bi-axial eccentric loadings
- Design wall footings, isolated footings and combined rectangular footing.




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TEXT BOOKS:

1. Gambhir.M.L., "Fundamentals of Reinforced Concrete Design", Prentice Hall of India Private Limited, New Delhi, 2006.
2. Krishnaraju.N " Design of Reinforced Concrete Structures ", CBS Publishers & Distributors Pvt. Ltd., New Delhi.

REFERENCES:

1. Sinha, S.N., "Reinforced Concrete Design", Tata McGraw Hill Publishing Company Ltd., Newm Delhi, 2017
2. Unnikrishna Pillai, S., Devdas Menon, "Reinforced Concrete Design", Tata McGraw Hill Publishing Company Ltd., 2021
3. Punmia.B.C., Ashok Kumar Jain, Arun Kumar Jain, "Limit State Design of Reinforced Concrete", Laxmi Publication Pvt. Ltd., New Delhi, 2016
4. Shah V L Karve S R., "Limit State Theory and Design of Reinforced Concrete", Structures Publications, Pune, 2013.

TEACHING AIDS:

- 1.Black Board(BB)
- 2.Power Point Presentation(PPT)
- 3.Models/Charts(M/C)

TEACHING METHODOLOGY:

- 1.Lecture(L)
- 2.Seminar(S)
- 3.Guest Lecture(GL)




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UNIT I METHODS OF DESIGN OF CONCRETE STRUCTURES					Target Periods:12
S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology




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1	Concept Of Elastic Method	1	1		BB/L
2	Concept Of Ultimate Load Method	1	1		BB/L
3	Concept Of Limit State Method	1	1		BB/L
4	Working Stress Method As Detailed In IS Code	1	1		BB/L
5	Design Of Singly Reinforced Beam By Working Stress Method	1	2		BB/L
6	Limit State Philosophy As Detailed In IS Code	1	1		PPT/L
7	Advantages Of Limit State Method Over Other Methods	1	1		PPT/L
8	Analysis And Design Of Singly Rectangular Beams By Limit State Method.	1	2		BB/L
9	Analysis And Design Of Doubly Reinforced Rectangular Beams By Limit State Method.	1	2		BB/L
TOTAL		9	12		
UNIT II LIMIT STATE METHOD - FLANGED BEAM, SHEAR & TORSION					Target Periods:12




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S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	Analysis And Design Of Flanged Beams	1	2		BB/L
2	Use Of Design Aids For Flexure	1	1		PPT/L
3	Behaviour Of RC Members In Bond And Anchorage	1	2		BB/L
4	Design Requirements As Per Current Code	1	1		BB/L
5	Behaviour Of RC Beams In Shear	1	1		BB/L
6	Behaviour Of RC Beams In Torsion	1	1		BB/L
7	Design Of RC Members For Combined Bending	1	1		BB/L
8	Design Of RC Members For Shear And Torsion	1	1		BB/L
9	Serviceability	1	2		BB/L
TOTAL		9	12		
UNIT III LIMIT STATE DESIGN OF SLABS AND STAIRCASE					Target Periods:11




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S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	Analysis and design of cantilever subjected to uniformly distributed load for various boundary conditions	2	2		BB/L
2	Analysis and design of one way subjected to uniformly distributed load for various boundary conditions	1	2		BB/L
3	Analysis and design of two way subjected to uniformly distributed load for various boundary conditions	1	2		BB/L
4	Analysis and design of continuous slabs subjected to uniformly distributed load for various boundary conditions	2	2		BB/L
5	Types of Staircases	1	1		BB/L
6	Design of dog-legged Staircase	1	1		BB/L
7	Introduction to Flat Slab.	1	1		BB/L
TOTAL		9	11		




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UNIT IV LIMIT STATE DESIGN OF COLUMNS					Target Periods:10
S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	Types of columns	1	2		BB/L
2	Design of short Rectangular columns for axialbending.	1	1		BB/L
3	Design of short Rectangular columns for Uniaxial bending.	2	2		BB/L
4	Design of short Rectangular columns for Biaxial bending.	1	1		BB/L
5	Design of short circular columns for axialbending.	1	1		BB/L
6	Design of short circular columns for Uniaxial bending.	2	2		BB/L
7	Design of short circular columns for Biaxialbending.	1	1		BB/L
TOTAL		9	10		




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UNIT V LIMIT STATE DESIGN OF FOOTING					Target Periods:12
S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	Design of wall footing	1	2		BB/L
2	Design of axially loaded rectangular pad	1	2		BB/L
3	Design of eccentrically loaded rectangular pad	2	2		BB/L
4	Design of axially loaded sloped footings	1	2		BB/L
5	Design of eccentrically loaded sloped footings	2	2		BB/L
6	Design of combined rectangular footing two columns only	2	2		BB/L
TOTAL		9	12		




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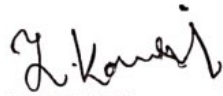


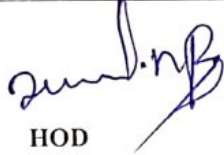
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ASSIGNMENT DETAILS:

S.NO	ASSIGNMENT TITLE
1	Design Of Singly Reinforced Beam By Working Stress Method
2	Behaviour Of RC Members In Bond And Anchorage
3	Analysis and design of one way subjected to uniformly distributed load for various boundary conditions
4	Design of short Rectangular columns for Biaxial bending.
5	Design of eccentrically loaded rectangular pad


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III-YEAR STUDENTS NAME LIST

S.NO	REG.NO	NAME
1	420317103001	BALAGI C
2	420317103005	JAYANTHI K
3	420317103006	MOHANA RAJAN M
4	420317103008	PRAVEEN KRISHNA D
5	420317103010	SASIKUMAR K
6	420317103012	SIVARANJANI R
7	420317103013	SRIRANJANI R
8	420317103014	VASANTHA KUMARI N
9	420317103015	VIJAYA KUMAR S
10	420317103301	SAKTHIVEL A
11	420317103302	VIGNESH K




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DEPARTMENT OF CIVIL ENGINEERING

III-YEAR STUDENTS INTERNAL MARKS

S.NO	REG.NO	NAME	IA-I	IA-II
1	420317103001	BALAGI C	60	65
2	420317103005	JAYANTHI K	58	68
3	420317103006	MOHANA RAJAN M	62	70
4	420317103008	PRAVEEN KRISHNA D	55	58
5	420317103010	SASIKUMAR K	59	64
6	420317103012	SIVARANJANI R	70	55
7	420317103013	SRIRANJANI R	62	65
8	420317103014	VASANTHA KUMARI N	62	64
9	420317103015	VIJAYA KUMAR S	65	60
10	420317103301	SAKTHIVEL A	58	55
11	420317103302	VIGNESH K	65	65

Subodh P



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CO - PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	3	3	3	0	0	0	0	0	0	0	3	3	3	3
2	3	3	3	3	0	0	0	0	0	0	0	3	3	2	2
3	3	3	3	3	0	0	0	0	0	0	0	3	3	2	2
4	3	3	3	3	0	0	0	0	0	0	0	3	3	2	2
5	2	3	3	3	0	0	0	0	0	0	0	3	3	2	2
AVERAGE	2.8	3	3	3	0	0	0	0	0	0	0	3	3	2.2	2.2

Auth B



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Department of Civil Engineering

DEPARTMENT OF CIVIL ENGINEERING INTERNAL ASSESSMENT EXAM-I (29-07-2019 TO 03-08-2019)(ODD -SEM)

TIME TABLE

MAX.MARKS:100 TIME: 10 AM TO 1 PM

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
29.07.2019	CE6501	STRUCTURAL ANALYSIS I
30.07.2019	CE6502	FOUNDATION ENGINEERING
31.07.2019	CE6503	ENVIRONMENTAL ENGINEERING I
01.08.2019	CE6504	HIGHWAY ENGINEERING
02.08.2019	CE6505	DESIGN OF REINFORCED CONCRETE ELEMENTS
03.08.2019	CE506	CONSTRUCTION TECHNIQUES EQUIP & PRACTICES

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
29.07.2019	CE8702	RAILWAYS, AIRPORTS, DOCKS AND HARBOUR
30.07.2019	CE8011	DESIGN OF PRESTRESSED CONCRETE STRUCTURES
31.07.2019	OCY751	WASTE WATER TREATMENT
01.08.2019	CE8701	ESTIMATION, COSTING AND VALUATION ENGG.
02.08.2019	CE8703	STRUCTURAL DESIGN AND DRAWING
03.08.2019	OML751	TESTING OF MATERIALS

Anth B
HOD



[Signature]
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DEPARTMENT OF CIVIL ENGINEERING
INTERNAL ASSESSMENT EXAM-II (03.09.2019 TO 09-09-2019)(ODD -SEM)

TIME TABLE

MAX.MARKS:100

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
03.09.2019	CE6501	STRUCTURAL ANALYSIS I
04.09.2019	CE6502	FOUNDATION ENGINEERING
05.09.2019	CE6503	ENVIRONMENTAL ENGINEERING I
06.09.2019	CE6504	HIGHWAY ENGINEERING
07.09.2019	CE6505	DESIGN OF REINFORCED CONCRETE ELEMENTS
09.09.2019	CE506	CONSTRUCTION TECHNIQUES EQUIP & PRACTICES

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
03.09.2019	CE8702	RAILWAYS, AIRPORTS, DOCKS AND HARBOUR
04.09.2019	CE8011	DESIGN OF PRESTRESSED CONCRETE STRUCTURES
05.09.2019	OCY751	WASTE WATER TREATMENT
06.09.2019	CE8701	ESTIMATION, COSTING AND VALUATION ENGG.
07.09.2019	CE8703	STRUCTURAL DESIGN AND DRAWING
09.09.2019	OML751	TESTING OF MATERIALS

Auth. B
HOD

[Signature]
PRINCIPAL



[Signature]
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DEPARTMENT OF CIVIL ENGINEERING MODEL EXAM-I (09-10-2019 TO 15-10-2019)(ODD –SEM)

TIME TABLE

MAX.MARKS:100

TIME: 10 AM TO 1PM

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
09.10.2019	CE6501	STRUCTURAL ANALYSIS I
10.10.2019	CE6502	FOUNDATION ENGINEERING
11.10.2019	CE6503	ENVIRONMENTAL ENGINEERING I
12.10.2019	CE6504	HIGHWAY ENGINEERING
14.10.2019	CE6505	DESIGN OF REINFORCED CONCRETE ELEMENTS
15.10.2019	CE506	CONSTRUCTION TECHNIQUES EQUIP & PRACTICES

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
09.10.2019	CE8702	RAILWAYS, AIRPORTS, DOCKS AND HARBOUR
10.10.2019	CE8011	DESIGN OF PRESTRESSED CONCRETE STRUCTURES
11.10.2019	OCY751	WASTE WATER TREATMENT
12.10.2019	CE8701	ESTIMATION, COSTING AND VALUATION ENGG.
14.10.2019	CE8703	STRUCTURAL DESIGN AND DRAWING
15.10.2019	OML751	TESTING OF MATERIALS

Ananth B
HOD



[Signature]
PRINCIPAL
[Signature]
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KAPPIYAMPULIYUR POST

Roll No.

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CIVIL**INTERNAL ASSESSMENT TEST-II**

PROGRAMME & BRANCH	B.E & CIVIL ENGINEERING	SEMESTER	V	
COURSE CODE & NAME	CE3501& DESIGN OF REINFORCED CONCRETE STRUCTURAL ELEMENTS		DATE	
MAXIMUM MARKS	100	DURATION AND TIME	03 HRS & 10 AM TO 1 PM	

PART- A ANSWER ALL QUESTIONS**(10 x 2 = 20 Marks)**

Q. No	Questions	BL	CO	Mark
1	Write the various types of slab.	BL1	3	2
2	Write the different types of staircase	BL1	3	2
3	Distinguish between the behavior of one way slab and two way slabs.	BL6	3	2
4	Show the value of partial safety factor for (a) concrete (b) steel.	BL2	3	2
5	Justify the different end conditions for slab with coefficients.	BL4	3	2
6	State the behaviour of slender column.	BL1	4	2
7	Summarize the function of lateral ties in a RC column.	BL2	4	2
8	Differentiate between uniaxial and biaxial column.	BL4	4	2
9	Why specifications are limited in column?	BL3	4	2
10	Show the effective length of different columns.	BL6	4	2

PART- B ANSWER ANY ONE QUESTION**(05 x 13 = 65 Marks)**

Q. No	Questions	BL	CO	Mark
11 (a)	Design a R.C. slab for a room measuring 5m x 6m size. The slab is simply supported on all the four edges, with corners held down and carries a superimposed load of 30 N/m ² . Inclusive of floor finishes etc. use M20 mix, Fe415 steel and IS code method. Draw the reinforcement details.	BL 1	3	13
OR				
11 (b)	Design and draw the reinforcement details of a two way slab for the following data: Size = 7 m x 5 m Width of the support = 300 mm Edge condition = two edges are discontinuous, live load = 5 kN/m ² Floor finish as 1 kN/m ² Use M20 concrete and Fe 415 steel.	BL 2	3	13
12 (a)	Design a continuous one way having 3 equal span of 3m each having imposed load of 2.5 KN/m ² . Use Fe415 & M15	BL 2	3	13
OR				



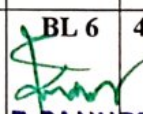
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VADAKKICHIDAI AVAM

12 (b)	Design one of the flight of a dog-legged stairs spanning between landing beams using following data Number of steps in a flight = 10 Tread = 300 mm Rise = 150mm Width of landing beams = 300mm.	BL 5	3	13
13 (a)	Design of short column subjected to biaxial bending. Determine the reinforcement for a short column for the following data. Column size: 400mmx600mm, $P_u=2000\text{kN}$ $M_{ux}=160\text{kNm}$, $M_{uy}=120\text{kNm}$. Use M20 grade concrete and Fe415 grade steel.	BL 1	4	13
OR				
13 (b)	Design the reinforcement in short column 400x600mm subjected to an ultimate axial load of 1600kN together with ultimate moments of 120kNm and 90kNm about the major and minor axis respectively. Use M20 grade concrete and Fe415 grade steel.	BL 3	4	13
14 (a)	Design a uniaxial spiral circular short column with details as given below. (i) Factored axial load = 300kN (ii) Factored bending moment = 80kNm (iii) Column size = 400mm Use M20 and Fe415 combination	BL 2	4	13
OR				
14 (b)	Design a cantilever slab projecting 1m from the support using M20 & Fe415 HYSD bars. Adopt live load of 3 kN/m ²	BL 6	3	13
15 (a)	Design the longitudinal reinforcement in a short column 400mm x 600mm subjected to an ultimate axial load of 1600 kN together with ultimate moments of 120 kN-m and 90kN-m about the major and minor axis respectively. The reinforcements are distributed equally on all four sides. Adopt M20 grade concrete and Fe415 steel bars.	BL 5	4	13
OR				
15 (b)	Design a short column subjected to biaxial bending. Determine the reinforcement for a short column for the following data. Column size: 450mmx600mm, $P_u=100\text{kN}$ $M_{ux}=260\text{kNm}$, $M_{uy}=120\text{kNm}$. Use M25 grade concrete and Fe250 grade steel.	BL 4	4	13

PART- C ANSWER ANY ONE QUESTION (01 x 15 = 15 Marks)

Q. No	Questions	BL	CO	Mark
16.a.	Design a floor slab for an interior room with interior dimension of 3.5 x 9 m for a building located in Chennai. The slab is resting on 230mm thick masonry walls	BL 6	3	15
OR				
16. b.	Design the reinforcement required for a column which is restrained against sway using the following data. Size of column=530x450mm, $l_{eff}=6.6\text{m}$, Unsupported length=7.70m. Factored load =1600kN.	BL 6	4	15




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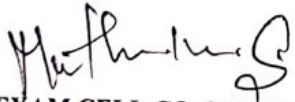
Factored moment about major axis =45kNm at top and 30kNm at bottom. Factored moment about minor axis=35kNm at top and 20kNm at bottom. Use M25 grade concrete and Fe 500 grade HYSD bars. Column is bent in double curvature and reinforcement is distributed equally on all the four sides of the section.			
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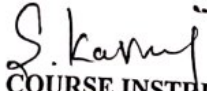
Blooms Level	Marks
1	32
2	43
3	15
4	17
5	26
6	47
Total	180

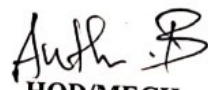
Q.NO	Course Outcome	Marks
1,2,3,4,5 11 a) & b), 12 a) & b) , 14 b), 16 a)	The Various Design Concepts And Design RC Rectangular Beams By Working Stress And Limit State Methods	90
6,7,8,9,10, 13 a)& b), 14 a), 15 a) & b), 16 b)	The Design Of Flanged Beams, Design For Shear And Torsion, And Anchorage And Development Length.	90

BL – Bloom's Taxonomy Levels

(L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing, L5 - Evaluating, L6 - Creating)


EXAM CELL CO-ORDINATOR


COURSE INSTRUCTOR


HOD/MECH


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DEPARTMENT OF CIVIL ENGINEERING

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ODD SEMESTER 2019- 2020

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DEPARTMENT OF CIVIL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CIVIL /01 /2019-2020 –ODD SEM

Date :08.07.2019

CIRCULAR

The first class committee meeting for VII semester Civil is to be held in the HOD cabin on 09.07.2019 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Placement activities for final – year students.

S.NO	NAME	DESIGNATION	SIGN
1	MR NIVETHA S S.AP/CIVIL	Chair person	S. Nivetha
2	MR.ANANDHA KUMAR.B	HOD	Anandha B
3	MR.K.ELAYARAJA, ASP/CIVIL	Member	K. Elayaraja
4	MR.B.ANANDHA KUMAR, AP/CIVIL	Member	B. Anandha
5	MS.D.THULBAMANI, AP/CIVIL	Member	D. Thulbamani
6	POOVARASAN.A	Student Representative	A. Poovarasana
7	RAMKIR	Student Representative	Ramkiran

Copy to:

1. Circulate among staff members.
2. Class advisor File.
3. Final – year students.

Anandha B
HOD



2

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DEPARTMENT OF CIVIL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CIVIL/01 /2019-2020 –ODD SEM

Date : 09.07.2019

Minutes of meeting

The first class committee meeting for VII Semester Civil was held on 09.07.2019 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR NIVETHA S S,AP/CIVIL	Chair person	S. Nivetha
2	MR. ANANDHA KUMAR.B	HOD	Anth. B
3	MR.K.ELAYARAJA, ASP/CIVIL	Member	K. Elayaraja
4	MR.B.ANANDHA KUMAR, AP/CIVIL	Member	B. Anandha Kumar
5	MS.D.THULBAMANI, AP/CIVIL	Member	D. Thulbamani
6	POOVARASANA	Student Representative	A. Poovarasana
7	RAMKIR	Student Representative	R. Ramkir

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advsor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advsors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructed the students to select the elective subject.
5	Students are advsd to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.
7	Students were instructed to choose good research topics and prepare batches for the project.	HOD advsd the students to choose creative and innovative research topics for the project and get approval from the guide.
8	Students are advsd to prepare well to attend	Placement coordinators are instructed to

3

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DEPARTMENT OF CIVIL ENGINEERING

	the placements and other exams.	identify new additional recruiters and arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.
--	---------------------------------	--

A. R. B.
HOD

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1. Circulate among staff members.
2. Class advsor File.

4



[Signature]
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DEPARTMENT OF CIVIL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CIVIL/01 /2019-2020 –ODD SEM

Date : 08.07.2019

CIRCULAR

The first class committee meeting for V semester Civil is to be held in the HOD cabin on 09.07.2019 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Academic schedule.
- Maintain proper dress code and class attendance.
- Arrangement for guest lecture / seminar for students.
- Secure good marks in internal assessment exams.
- Selection of elective subject.

S.NO	NAME	DESIGNATION	SIGN
1	MS.K.PAVTHRA, AP/CIVIL	Chair person	K.Pavthra
2	MR.ANANDHA KUMAR.B	HOD	Ananth B
3	MRS.S.KAVERI, AP/CIVIL	Member	S.Kaveri
4	MS.SS.NIVETHA, AP/CIVIL	Member	S.S.Nivetha
5	MR.M.THIRUVENKADAM, AP/CIVIL	Member	M.Thiruv
6	SIVARANJANI.R	Student Representative	R.Sivaranjan
7	VJAYA KUMAR.S	Student Representative	S.Vjaya Kumar

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- 1.Circulate among staff members.
- 2.Class adVsor File.
- 3.Third –year Students.

Anth B
HOD



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DEPARTMENT OF CIVIL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC /CIVIL /01 /2019-20 –ODD SEM

Date : 09.07.2019

Minutes of meeting

The first class committee meeting for V Semester Civil was held on 09.07.2019 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MS.K.PAVTHRA, AP/CIVIL	Chair person	K. Pavthra
2	MR.ANANDHA KUMAR,B	HOD	Anth.B
3	MRS.S.KAVERI, AP/CIVIL	Member	S. Kaveri
4	MS.SS.NIVETHA, AP/CIVIL	Member	S. Nivetha
5	MR.M.THIRUVENKADAM, AP/CIVIL	Member	M. Thiruvadam
6	SIVARANJAN,R	Student Representative	R. Sivaraj
7	VJAYA KUMAR,S	Student Representative	S. Vjayakumar

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class adVsor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advsors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructed the student to select the elective subject.
5	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.

COPY:

1.Circulate among staff members.

2.Class adVsor File.

Anth.B
HOD

[Signature]

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DEPARTMENT OF CIVIL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CIVIL /01 /2019-2020 –ODD SEM

Date :10.08.2019

CIRCULAR

The second class committee meeting for VII semester Civil is to be held in the HOD cabin on 13.08.2019 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- University result analysis for the previous semester.
- Status of the project work and conduct reView for students.
- Internship benefits.
- Students gets fellowships in various project in reputed organization.

S.NO	NAME	DESIGNATION	SIGN
1	MR NIVETHA S S, AP/CIVIL	Chair person	<i>[Signature]</i>
2	MR. ANANDHA KUMAR. B	HOD	<i>[Signature]</i>
3	MR. K. ELAYARAJA, ASP/CIVIL	Member	<i>[Signature]</i>
4	MR. B. ANANDHA KUMAR, AP/CIVIL	Member	<i>[Signature]</i>
5	MS. D. THULBAMANI, AP/CIVIL	Member	<i>[Signature]</i>
6	POOVARASANA	Student Representative	<i>[Signature]</i>
7	RAMKIR	Student Representative	<i>[Signature]</i>

Copy to:

4. Circulate among staff members.
5. Class advisor File.
6. Final – year students.

[Signature]
HOD



7

[Signature]
Dr. R. PANNEERDHASS, M.E., P.S. 2
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

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DEPARTMENT OF CIVIL ENGINEERING

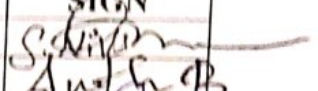
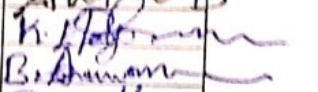
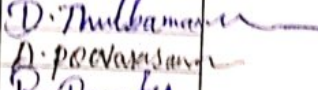
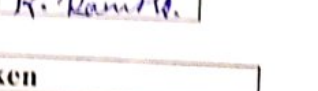
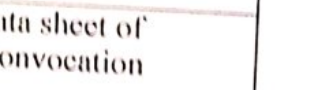
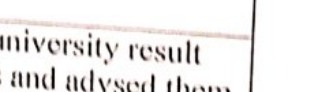
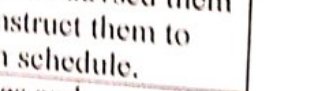
CLASS COMMITTEE MEETING

REF : AREC / CIVIL/01 /2019-2020 –ODD SEM

Date : 13.08.2019

Minutes of meeting

The second class committee meeting for VII Semester Civil was held on 13.08.2019 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MIR NIVETHA S.S, AP/CIVIL	Chair person	
2	MR. ANANDHA KUMAR.B	HOD	
3	M.R. ELAYARAJA, AP/CIVIL	Member	
4	MR. B. ANANDHA KUMAR, AP/CIVIL	Member	
5	MS. D. THULBAMANI, AP/CIVIL	Member	
6	POOVARASANA	Student Representative	
7	RAMKIR	Student Representative	

S.NO	Points discussed	Action taken
1	HOD instructed the students to submit their details for the convocation and clear the fees due.	Class advisor collect the data sheet of students and prepare the convocation details.
2	HOD instructed the students about the university result analysis for the previous semester. Students are advsed to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advsed them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve their skills through an internship and in-plant training.	ProVde bonafide certificates and permission letters to students to attend internships in industries.
4	Students were instructed to update the current status of the project.	A final review was conducted by the coordinator who informed to submit the final report and project kit to the guide.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.
6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposium to	Display the brochures of various ODDTs conducted by the other institution on the

8



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Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

DEPARTMENT OF CIVIL ENGINEERING

	develop their knowledge.	notice board. And encourage the students to participate.
8	HOD instructed the students to register for apprenticeships in government and private industries.	HOD explain the process of registration for apprenticeship and its benefits to the students.

Auth. B
HOD

Copy

1. Circulate among staff members.
2. Class advsor File.



Dr. R. Panneerdhass
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DEPARTMENT OF CIVIL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CIVIL/01 /2019-2020 –ODD SEM
CIRCULAR

Date :10.08.2019

The second class committee meeting for V semester Civil is to be held in the HOD cabin on 13.08.2019 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invtd to attend the meeting.

Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.
- Actively participate in paper presentations and symposiums.

S.NO	NAME	DESIGNATION	SIGN
1	MS.K.PAVTHRA, AP/CIVIL	Chair person	
2	MR.ANANDHA KUMAR.B	HOD	
3	MRS.S.KAVERI, AP/CIVIL	Member	
4	MS.SS.NIVETHA, AP/CIVIL	Member	
5	MR.M.THIRUVENKADAM, AP/CIVIL	Member	
6	SIVARANJAN.R	Student Representative	
7	VJAYA KUMAR.S	Student Representative	

Copy to:

- 1.Circulate among staff members.
- 2.Class advsor File.
- 3.Third –year Students.

HOD



10

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Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

DEPARTMENT OF CIVIL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / CIVIL/01 /2019-2020 –ODD SEM

Date : 13.08.2019

Minutes of meeting

The second class committee meeting for V Semester Civil was held on 13.08.2019 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MS.K.PAVTHRA, AP/CIVIL	Chair person	10. [Signature]
2	MR.ANANDHA KUMAR.B	HOD	[Signature]
3	MRS.S.KAVERI, AP/CIVIL	Member	[Signature]
4	MS.SS.NIVETHA, AP/CIVIL	Member	[Signature]
5	MR.M.THIRUVENKADAM, AP/CIVIL	Member	[Signature]
6	SIVARANJAN.R	Student Representative	[Signature]
7	VJAYA KUMAR.S	Student Representative	[Signature]

S.NO	Points discussed	Action taken
1	The Students were advsd again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
2	HOD instructed the Students about the university result analysis for the previous semester. Students are advsd to focus on their studies and prepare for exams.	Class advsors inform the university result of students to their parents and advsd them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve the skills through an internship and in -plant training.	ProVde bonafide certificates and permission letters to students to attend internships in industries.
4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advsd to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.
6	HOD instructed the students to complete their	The lab in charge verifies the

11



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DEPARTMENT OF CIVIL ENGINEERING

	observation and turn in their record work by the deadline specified by the particular lab in charge.	observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various ODDts conducted by the other institution on the notice board. And encourage the students to participate.

COPY:

- 1.Circulate among staff members.
- 2.Class adVsor File.

Sudh B
HOD



[Signature]
Dr.R.PANNEERDHASS, M.E., Ph.D.,
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VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Reg. No. :

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Question Paper Code : 50342

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Fifth Semester

Civil Engineering

CE 8501 — DESIGN OF REINFORCED CEMENT CONCRETE ELEMENTS

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

(Use of IS 456 permitted)

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Summarize the main concept of working stress method/Elastic theory of reinforced concrete structures.
2. How are the margin of safety assigned in elastic method and ultimate load method?
3. Enumerate the advantages of flanged beams.
4. Why is bond stress more in compression bars than in tension bars?
5. Interpret the necessity of secondary /distribution reinforcement in one way RC slab.
6. What is the minimum rise and tread that are to be provided in
 - (a) Residential building
 - (b) Public building
7. Discuss the function of lateral ties in a RC column.
8. Sketch the salient points on a typical axial — moment interaction curve of a column.
9. On what circumstances combined rectangular footings are suitable?
10. Define punching shear.




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VILLUPURAM-605 601.

PART B — (5 × 13 = 65 marks)

11. (a) Explain the codal recommendations for limit states of design.

Or

- (b) Derive the expression for the depth of neutral axis and moment of resistance of a rectangular singly reinforced balanced section under flexure and obtain design constants K_u and Q_u for M25 grade of concrete and Fe500 grade of steel. Adopt working stress method.
12. (a) A beam of rectangular section 300 mm width and 500 mm effective depth is subjected to factored moment of 175 kNm, factored shear force of 25 kN and factored twisting moment of 10 kNm. Determine the area of reinforcement to resist the above forces. Adopt M25 grade of concrete and Fe500 grade of steel.

Or

- (b) Calculate the ultimate moment of resistance of a singly reinforced T beam having flange width of 1200 mm, flange thickness of 120 mm and rib width of 300 mm. The effective depth of beam is 600 mm. The beam is reinforced with 8-25 dia bars. Adopt M25 grade of concrete and Fe500 grade of steel.
13. (a) A straight stair in a residential building is supported on wall at one side and by stringer beam on the other side, with a horizontal span of 1.2 m. The risers are 150 mm and tread 300 mm. Design the steps. Adopt M25 grade of concrete and Fe500 grade of steel. Take live load as 2.5 kN/m².

Or

- (b) Design the reinforcements required for a simply supported RC slab for a floor to carry a live load of 5.5 kN/m² (service load). The clear dimension of the room is 5 × 8 m with 230 mm walls all round. Assume a floor finish of 1.15 kN/m². Adopt M25 grade of concrete and Fe500 grade of steel.
14. (a) A braced reinforced concrete column of circular cross section of 500 mm diameter is to support a factored axial load of 2350 kN along with a factored moment of 160 kNm. The unsupported length of the column is 6.3 m with effective length of 5.5 m. design the column when it is to be provided with:
- (i) Lateral ties
 - (ii) Spiral reinforcement
- Adopt M25 grade of concrete and Fe500 grade of steel.

Or

- (b) Design the reinforcements in a short column 400 × 400 mm at the corner of a multi-storeyed building to support an axial factored load of 1500 kN, together with a biaxial moments of 55 kNm acting in perpendicular planes. Adopt M25 grade of concrete and Fe500 grade of steel.

2

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VILLUPURAM-605 001.

15. (a) A rectangular column of size 300×450 mm transmits a limit state load of 600 kN at an eccentricity of 150 mm about the major axis. Design a suitable isolated footing for the column by the limit state concept. Safe capacity of soil is 200 kN/m^2 . Use M25 grade of concrete and Fe500 grade of steel. Sketch the reinforcement details.

Or

- (b) Design an isolated footing for a square column, 450×450 mm, reinforced with 8-25 dia bars, and carrying a service load of 2300 kN. Assume soil with a safe bearing capacity (gross) of 300 kN/m^2 at a depth of 1.5 m below ground. Adopt M25 grade of concrete and Fe500 grade of steel.

PART C (1 × 15 = 15 marks)

16. (a) Design a reinforced concrete footing for a 345 mm thick masonry wall which supports a characteristic load of 225 kN/m including self-weight. Assume safe bearing capacity of soil is 140 kN/m^2 at a depth of 1.2 m below ground level. Adopt M25 grade of concrete and Fe500 grade of steel.

Or

- (b) Determine the reinforcements to be provided in a short RC column given the following data, by limit state method.

- (i) Size of column = 300×600 mm
 - (ii) Factored load = 1200 kN
 - (iii) Factored moments, $M_{ux} = 160 \text{ kNm}$ & $M_{uy} = 80 \text{ kNm}$
- Adopt M25 grade of concrete and Fe500 grade of steel.




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ACADEMIC YEAR 2020 - 2021




Dr. R. PANNEERDHASS, M.E. Ph.D.,
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Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

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ODD SEMESTER 2020 - 2021

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1	Anna University Academic Schedule
2	Academic Calendar
3	Internal Assessment Schedule




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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ANNA UNIVERSITY ACADEMIC SCHEDULE




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date : 06.08.2020

CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

August 2020 - November 2020 (ODD SEMESTER - Except I Semester)

UG & PG Programmes

Sl. No.	Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	All UG/PG Programmes (except I Semester)	12.09.2020	26.10.2020**	28.10.2020	09.11.2020
2.	B.E. / B. Tech (Part Time) - III, V, VII				

RE - OPENING DAY FOR THE NEXT SEMESTER: 14.12.2020 (Monday)

NOTE:

1. The Theory and Practical Examination schedules which will be published in due course by the Controller of Examinations, Anna University, Chennai should be followed. (Practical Examinations will be conducted before the theory examinations).
2. Assessment Schedule for the August 2020 - November 2020 should be followed strictly.
3. Saturdays included in the Assessment period shall be used for conducting the Assessment Tests.

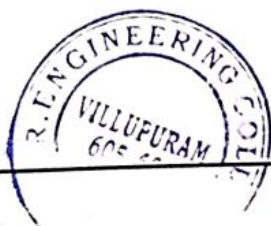
** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays for UG & PG)	Time Table of the Week Day to be Followed
1.	05.09.2020	Tuesday
2.	12.09.2020	Friday
3.	19.09.2020	Monday
4.	26.09.2020	Tuesday

Sl. No.	Working Days (Saturdays for UG & PG)	Time Table of the Week Day to be Followed
5.	03.10.2020	Wednesday
6.	10.10.2020	Thursday
7.	17.10.2020	Friday
8.	24.10.2020	Monday

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ACADEMIC COURSES

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Dr. R. PANNEERDHASS, M.E., Ph.D.,
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A.R. ENGINEERING COLLEGE
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KAPPIYAMPALLE POST,
VILLUPURAM - 605 005



CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY
CHENNAI - 600 075

Off: 22357072 / 73
22357374
Fax: Dr. 22352272



Dr. S. HOSIMIN THILAGAR
DIRECTOR

Letter No: 2406/AU/CAG/Ach Sch(Rev)/2020

16.10.2020

To
All the Deans
All the Heads of the Departments
CEG / MIT / AOT / SAP Campuses
Anna University, Chennai - 25

NOTIFICATION

Based on the deliberations, the following decisions are taken:

Agenda Item: Extension of Academic Schedule (August – November 2020)

Representations were received from various HoDs of University Departments regarding the challenges / difficulties faced by both the students and faculty during the online teaching – learning process. The issues such as cramped academic schedule, poor network connectivity and insufficient time period between the conduct of three reviews for the project work were discussed.

After due deliberations, in order to address the above said issues and to facilitate the completion of syllabus and the conduct of the internal assessment, it was decided to extend the Academic schedule for the University Departments for the current semester. The revised schedule for this session (August – November 2020) is tabulated as below:




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VILUPPUR - 626 001.

Affiliated Institutions

Sl. No	Program me	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
			Existing	Revised	Existing	Revised	Existing	Revised
1	All UG / PG Programmes (except I Semester)	12.08.2020	26.10.2020	13.11.2020	28.10.2020	17.11.2020	09.11.2020	26.11.2020
2	B.E / B.Tech. (Part Time) - III, V, VII							

RE - OPENING DAY FOR THE NEXT SEMESTER: 28.12.2020 (Monday)

In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays for UG & PG)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays for UG & PG)	Time Table of the Week Day to be Followed
1	05.09.2020	Tuesday	6	10.10.2020	Thursday
2	12.09.2020	Friday	7	17.10.2020	Friday
3	19.09.2020	Monday	8	24.10.2020	Monday
4	26.09.2020	Tuesday	9	31.10.2020	Friday
5	03.10.2020	Wednesday	10	07.11.2020	Monday

This decision is taken with the approval of the competent authority.

Thanking you,

Yours faithfully

DIRECTOR

Copy to:




Dr. R. PANNEERDHASS, M.E., Ph.D.,
 PRINCIPAL
 A.R. ENGINEERING COLLEGE
 VADAKUCHIPALAYAM,
 KAPPIYAMPULIYUR POST,
 VILLUPURAM-605 601.

Date : 13.11.2020

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

November 2020 - December 2020 (ODD SEMESTER)

UG - Lateral Entry only

Sl. No.	Programme	Commencement of Classes	Last working day	Commencement of End Semester Examinations
1	All UG (Lateral Entry) Programmes	16.11.2020	16.12.2020**	21.12.2020

RE - OPENING DAY FOR THE NEXT SEMESTER: 04.01.2021 (Monday)

NOTE:

1. The Theory Examination schedule will be published in due course by the Controller of Examinations, Anna University, Chennai and the same should be followed.
2. Assessments shall be conducted during November 2020 - December 2020.

** In order to ensure minimum no. of working days, the all Saturdays and Sundays are declared as working days.

DIRECTOR /c
CENTRE FOR ACADEMIC COURSES



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Date: 21.11.2020

CENTRE FOR ACADEMIC COURSES

REVISED

ANNA UNIVERSITY: : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

November 2020 - March 2021 (ODD SEMESTER - I Semester)*

UG (FT) Degree Programmes

Sl. No	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E./B.Tech. (Full Time)	I	09.11.2020	23.11.2020	24.02.2021**	26.02.2021	08.03.2021
2.	B. Arch. (Full Time)	I	23.11.2020	30.11.2020	03.03.2021***	05.03.2021	15.03.2021

* As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode

RE-OPENING DAY FOR THE NEXT SEMESTER: 05.04.2021 (Monday)

1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

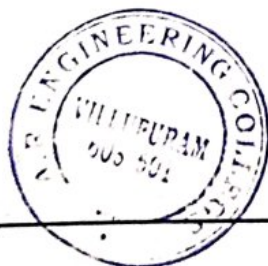
** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No	Working Days (Saturdays for UG (FT))	Time Table of the Week Day to be Followed
1	28.11.2020	Monday
2	05.12.2020	Tuesday
3	12.12.2020	Wednesday
4	19.12.2020	Thursday
5	26.12.2020	Friday
6	02.01.2021	Friday

Sl. No	Working Days (Saturdays for UG (FT))	Time Table of the Week Day to be Followed
7	09.01.2021	Thursday
8	23.01.2021	Friday
9	30.01.2021	Tuesday
10	06.02.2021	Monday
11	13.02.2021	Tuesday
12	20.02.2021	Wednesday
13	27.02.2021***	Thursday

DIRECTOR
ACADEMIC COURSES

DAC - 58



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ACADEMIC CALENDAR ODD SEMESTER 2020 - 2021




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PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM - 605 601

Month	Day	Month : August 2020	No. of Working day
1-Aug	Sat	Bakrid Holiday	
2-Aug	Sun	Holiday	
3-Aug	Mon		
4-Aug	Tue		
5-Aug	Wed		
6-Aug	Thu		
7-Aug	Fri		
8-Aug	Sat	Holiday	
9-Aug	Sun	Holiday	
10-Aug	Mon		
11-Aug	Tue	Krishna jayanthi	
12-Aug	Wed	Commencement of classes start II,III,IV YEAR	1
13-Aug	Thu		2
14-Aug	Fri		3
15-Aug	Sat	Independance day	
16-Aug	Sun	Holiday	
17-Aug	Mon		4
18-Aug	Tue		5
19-Aug	Wed		6
20-Aug	Thu		7
21-Aug	Fri	Vinayakar chathurthi	
22-Aug	Sat	Holiday	
23-Aug	Sun	Holiday	
24-Aug	Mon		9
25-Aug	Tue		10
26-Aug	Wed		11
27-Aug	Thu		12
28-Aug	Fri		13
29-Aug	Sat	Holiday	
30-Aug	Sun	MOHARAM - Holiday	
31-Aug	Mon		14




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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 VILLUPUTURAM 605 601.

Month	Day	Month : September 2020	No. of Working day
01-Sep	Tue		15
02-Sep	Wed		16
03-Sep	Thur		17
04-Sep	Fri		18
05-Sep	Sat	TEACHER'S DAY CELEBRATION	19
06-Sep	Sun	Holiday	
07-Sep	Mon		20
08-Sep	Tue		21
09-Sep	Wed		22
10-Sep	Thur		23
11-Sep	Fri		24
12-Sep	Sat		25
13-Sep	Sun	Holiday	
14-Sep	Mon		26
15-Sep	Tue	TEACHER'S DAY CELEBRATION	27
16-Sep	Wed		28
17-Sep	Thur		29
18-Sep	Fri		30
19-Sep	Sat		31
20-Sep	Sun	Holiday	
21-Sep	Mon	Internal Assessment-I STARTS(II, III, IV YEAR)	32
22-Sep	Tue	Internal Assessment-I	33
23-Sep	Wed	Internal Assessment-I	34
24-Sep	Thur	Internal Assessment-I	35
25-Sep	Fri	Internal Assessment-I	36
26-Sep	Sat	Internal Assessment-I ENDS	37
27-Sep	Sun	Holiday	
28-Sep	Mon		38
29-Sep	Tue		39
30-Sep	Wed		40



[Signature]
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KAPPYAMPULIYUR POST,
VILLUPURAM-605 601.

Month	Day	Month : October 2020	No. of Working day
01-Oct	Thu		41
02-Oct	Fri	Gandhi jayanthi	
03-Oct	Sat		42
04-Oct	Sun	Holiday	
05-Oct	Mon		43
06-Oct	Tue		44
07-Oct	Wed		45
08-Oct	Thu		46
09-Oct	Fri		47
10-Oct	Sat		48
11-Oct	Sun	Holiday	
12-Oct	Mon		49
13-Oct	Tue		50
14-Oct	Wed		51
15-Oct	Thu		52
16-Oct	Fri		53
17-Oct	Sat		54
18-Oct	Sun	Holiday	
19-Oct	Mon	Internal Assessment-II STARTS(II, III , IV YEAR)	55
20-Oct	Tue	Internal Assessment – II	56
21-Oct	Wed	Internal Assessment – II	57
22-Oct	Thu	Internal Assessment – II	58
23-Oct	Fri	Internal Assessment – II	59
24-Oct	Sat	Internal Assessment – II END	60
25-Oct	Sun	Ayutha pooja Holiday	
26-Oct	Mon	Vijaya dasami celebration	61
27-Oct	Tue		62
28-Oct	Wed		63
29-Oct	Thu		64
30-Oct	Fri	Milad –un - Nabi	
31-Oct	Sat		65




 DR. R. PANNEERSELASS, M.E., Ph.D.,
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 VILLUPURAM-605 601.

Month	Day	Month : November 2020	No. of Working day
01-Nov	Sun	Holiday	66
02- Nov	Mon	MODEL EXAM START II,III,IV YEAR	67
03- Nov	Tue	MODEL EXAM	68
04-Nov	Wed	MODEL EXAM	69
05- Nov	Thu	MODEL EXAM	70
06- Nov	Fri	MODEL EXAM	71
07- Nov	Sat	MODEL EXAM END	72
08- Nov	Sun	Holiday	
09- Nov	Mon	Commencement of Induction Programme for I Year	73
10- Nov	Tue		74
11- Nov	Wed		75
12- Nov	Thu		76
13- Nov	Fri	Last Working day for II,III,IV year	77
14- Nov	Sat	Deepavali Holiday	
15- Nov	Sun	Holiday	
16- Nov	Mon		
17- Nov	Tue	Commencement of practical Examinations II,III,IV year	
18- Nov	Wed		
19- Nov	Thu		
20- Nov	Fri		
21- Nov	Sat	Holiday	
22- Nov	Sun	Holiday	
23- Nov	Mon	Commencement of Classes for I Year (Marked in the bracket)	(1)
24- Nov	Tue		(2)
25- Nov	Wed		(3)
26- Nov	Thu	Commencement of AU semester Examinations II,III,IV year	(4)
27- Nov	Fri		(5)
28- Nov	Sat		(6)
29- Nov	Sun	Holiday	
30- Nov	Mon		(7)



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Month	Day	Month : December 2020	NO. OF WORKING DAYS
01-Dec	Tue		(8)
02- Dec	Wed		(9)
03-Dec	Thu		(10)
04-Dec	Fri		(11)
05- Dec	Sat		(12)
06- Dec	Sun	Holiday	(13)
07- Dec	Mon		(14)
08- Dec	Tue		(15)
09- Dec	Wed		(16)
10- Dec	Thu		(17)
11- Dec	Fri		(18)
12- Dec	Sat		(19)
13- Dec	Sun	Holiday	
14- Dec	Mon		(20)
15- Dec	Tue		(21)
16- Dec	Wed		(22)
17- Dec	Thu		(23)
18- Dec	Fri		(24)
19- Dec	Sat		(25)
20- Dec	Sun	Holiday	
21- Dec	Mon	Internal Assessment - I STARTS (I YEAR)	(26)
22- Dec	Tue	Internal Assessment – I	(27)
23- Dec	Wed	Internal Assessment – I	(28)
24- Dec	Thu	Internal Assessment – I	(29)
25- Dec	Fri	Christmas Holiday	
26- Dec	Sat	Internal Assessment – I	(30)
27- Dec	Sun	Holiday	
28- Dec	Mon	Internal Assessment – I END	(31)
29- Dec	Tue		(32)
30- Dec	Wed		(33)
31- Dec	Thu		(34)



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VILLUPURAM-605 601.

Month	Day	Month : January 2021	NO. OF WORKING DAYS
01-Jan	Fri	NEW YEAR HOLIDAY	
02-Jan	Sat		(35)
03-Jan	Sun	Holiday	
04-Jan	Mon		(36)
05-Jan	Tue		(37)
06-Jan	Wed		(38)
07-Jan	Thu		(39)
08-Jan	Fri		(40)
09-Jan	Sat		(41)
10-Jan	Sun	Holiday	
11-Jan	Mon		(42)
12-Jan	Tue		(43)
13-Jan	Wed		(44)
14-Jan	Thu		(45)
15-Jan	Fri		(46)
16-Jan	Sat	Holiday	
17-Jan	Sun	Holiday	
18-Jan	Mon		(47)
19-Jan	Tue		(48)
20-Jan	Wed		(49)
21-Jan	Thu		(50)
22-Jan	Fri		(51)
23-Jan	Sat		(52)
24-Jan	Sun	Holiday	
25-Jan	Mon	Internal Assessment-II STARTS(1 YEAR)	(53)
26-Jan	Tue	Internal Assessment – II	(54)
27-Jan	Wed	Internal Assessment – II	(55)
28-Jan	Thu	Internal Assessment – II	(56)
29-Jan	Fri	Internal Assessment – II	(57)
30-Jan	Sat	Internal Assessment – II END	(58)
31-Jan	Sun	Holiday	



[Signature]

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KANNIYAMPULIYUR POST,
VILLUPURAM 605 601.

Month	Day	MONTH : FEBRUARY 2021	No. of Working day
1-Feb	Mon		(59)
2-Feb	Tue		(60)
3-Feb	Wed		(61)
4-Feb	Thu		(62)
5-Feb	Fri		(63)
6-Feb	Sat		(64)
7-Feb	Sun	Holiday	
8-Feb	Mon		(65)
9-Feb	Tue		(66)
10-Feb	Wed	MODEL EXAM START I YEAR	(67)
11-Feb	Thu	MODEL EXAM	(68)
12-Feb	Fri	MODEL EXAM	(69)
13-Feb	Sat	MODEL EXAM	(70)
14-Feb	Sun	Holiday	
15-Feb	Mon	MODEL EXAM	(71)
16-Feb	Tue	MODEL EXAM END	(72)
17-Feb	Wed		(73)
18-Feb	Thu		(74)
19-Feb	Fri		(75)
20-Feb	Sat		(76)
21-Feb	Sun	Holiday	
22-Feb	Mon		(77)
23-Feb	Tue		(78)
24-Feb	Wed	Last working Day for I year	(79)
25-Feb	Thu		
26-Feb	Fri	Commencement of Practical Examinations I year	
27-Feb	Sat		
28-Feb	Sun	Holiday	




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 VILLUPURAM-605 601.

Month	Day	MONTH : MARCH 2021	No. of Working day
01-Mar	Mon		
02-Mar	Tue		
03-Mar	Wed		
04-Mar	Thu		
05-Mar	Fri		
06-Mar	Sat		
07-Mar	Sun	Holiday	
08-Mar	Mon	Commencement of AU semester Examinations I year	
09-Mar	Tue		
10-Mar	Wed		
11-Mar	Thu		
12-Mar	Fri		
13-Mar	Sat		
14-Mar	Sun	Holiday	
15-Mar	Mon		
16-Mar	Tue		
17-Mar	Wed		
18-Mar	Thu		
19-Mar	Fri		
20-Mar	Sat		
21-Mar	Sun	Holiday	
22-Mar	Mon		
23-Mar	Tue		
24-Mar	Wed		
25-Mar	Thu		
26-Mar	Fri		
27-Mar	Sat		
28-Mar	Sun	Holiday	
29-Mar	Mon		
30-Mar	Tue		
31-Mar	Wed		




Dr. R. PANNIRSELVAM, M.E., Ph.D.,
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INTERNAL ASSESSMENT SCHEDULE ODD SEMESTER 2020 - 21




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

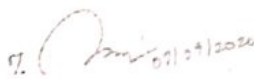
ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

August - November 2020 (For all UG/PG - Programmes Except I Semester (Full Time/Part Time))

Report No	Report Period	Test Period	Report Entry Period
I	*****	****	*****
II	12-08-2020 -- 07-09-2020	01-09-2020 -- 05-09-2020	07-09-2020 -- 11-09-2020
III	08-09-2020 -- 30-09-2020	23-09-2020 -- 29-09-2020	30-09-2020 -- 06-10-2020
IV	01-10-2020 -- 26-10-2020	19-10-2020 -- 24-10-2020	26-10-2020 -- 28-10-2020

Saturdays may be included as working days to make good the Shortages, if any.


CONTROLLER OF EXAMINATIONS




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Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : November 2020 / March 2021 (ODD SEMESTER - I SEMESTER) - UG PROGRAMMES

B.E. / B.Tech (Full Time)

Report No	Report Period	Test Period	Report Entry Period
I	23-11-2020 - 08-12-2020	No Test	08-12-2020 - 15-12-2020
II	09-12-2020 - 03-01-2021	26-12-2020 - 03-01-2021	03-01-2021 - 11-01-2021
III	04-01-2021 - 01-02-2021	20-01-2021 - 01-02-2021	01-02-2021 - 08-02-2021
IV	02-02-2021 - 24-02-2021	20-02-2021 - 24-02-2021	24-02-2021 - 26-02-2021

B.E./B.Tech - Part Time & B.Arch (Full Time)

Report No	Report Period	Test Period	Report Entry Period
I	30-11-2020 - 15-12-2020	No Test	15-12-2020 - 23-12-2020
II	16-12-2020 - 09-01-2021	05-01-2021 - 09-01-2021	09-01-2021 - 20-01-2021
III	11-01-2021 - 08-02-2021	02-02-2021 - 08-02-2021	08-02-2021 - 15-02-2021
IV	09-02-2021 - 03-03-2021	25-02-2021 - 03-03-2021	03-03-2021 - 05-03-2021

Saturdays may be included as working days to make good the Shortages, if any.



[Signature]
CONTROLLER OF EXAMINATIONS



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EVEN SEMESTER 2020 - 2021

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Dr. R. PANNEERDHASS, M.E., Ph.D.
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ANNA UNIVERSITY ACADEMIC SCHEDULE




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VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 21.01.2021

CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

December 2020 - May 2021 (Even Semester - Final Semester*)

UG & PG Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech (Full Time)	VIII	14.12.2020	12.04.2021**	15.04.2021	26.04.2021
2	B.Arch. (Full Time)	X				
3	M.E. / M.Tech / M.Arch (FT)	IV				
4	M.C.A. (Full Time)	VI				
5	M.B.A. (FT)	IV				
6	M.Sc. (5 Yrs-Integrated)	X				
7	M.B.A. (5 Yrs-Integrated)	X				

* Odd Semester - End Semester Examinations Holidays from 01.02.2021 to 17.02.2021

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays

** In order to ensure minimum no. of working days, the following 8 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	20.02.2021	Friday	5	20.03.2021	Monday
2	27.02.2021	Tuesday	6	27.03.2021	Tuesday
3	06.03.2021	Wednesday	7	03.04.2021	Wednesday
4	13.03.2021	Friday	8	10.04.2021	Thursday

DIRECTOR
ACADEMIC COURSES



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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 21.01.2021



CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY, CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

February 2021 - June 2021 (Even Semester - Except II & Final Semester)*

UG & PG Programmes

Sl No	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech (Full-Time)	IV-VI	18.02.2021	21.05.2021**	24.05.2021	02.06.2021
2	B.E. / B.Tech (Part-Time)	IV-VI				
3	B.Arch. (Full-Time)	IV-VI-VIII				
4	M.C.A. (Full-Time)	IV				
5	M.Sc. (5 Yrs-Integrated)	IV-VI-VIII				
6	M.B.A. (5 Yrs-Integrated)	IV-VI-VIII				

* As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2021 (Thursday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following 12 Saturdays are declared as working days.

Sl No	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl No	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	20.02.2021	Friday	7	03.04.2021	Wednesday
2	27.02.2021	Tuesday	8	10.04.2021	Thursday
3	06.03.2021	Wednesday	9	17.04.2021	Friday
4	13.03.2021	Friday	10	24.04.2021	Monday
5	20.03.2021	Monday	11	03.05.2021	Tuesday
6	27.03.2021	Tuesday	12	15.05.2021	Wednesday

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VILLUPURAM-605 601.

Date: 31.03.2021

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

April 2021 - July 2021 (EVEN SEMESTER - II Semester)*

UG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E / B.Tech (Full-Time)	II	08.04.2021	08.07.2021**	10.07.2021	22.07.2021
2	B.Arch (Full-Time)	II				
3	B.E / B.Tech (Part Time)	II				

* As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode

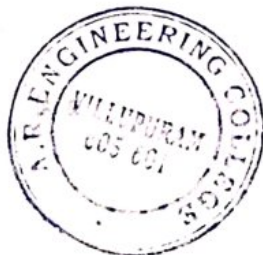
RE-OPENING DAY FOR THE NEXT SEMESTER: 16.03.2021 (MONDAY)

1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays for UG (FT/PT))	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays for UG (FT/PT))	Time Table of the Week Day to be Followed
1	10.04.2021	Thursday	7	29.05.2021	Friday
2	17.04.2021	Friday	8	05.06.2021	Monday
3	24.04.2021	Monday	9	12.06.2021	Tuesday
4	08.05.2021	Tuesday	10	19.06.2021	Wednesday
5	15.05.2021	Wednesday	11	26.06.2021	Thursday
6	22.05.2021	Thursday	12	03.07.2021	Friday

DIRECTOR
ACADEMIC COURSES



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KATTIAMBULUR POST,
VILLUPURAM-605 601.



A.R.ENGINEERING COLLEGE

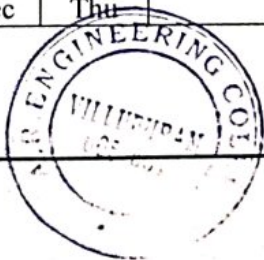
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ACADEMIC CALENDAR EVEN SEMESTER 2020 - 2021



Dr. R. PANNEERDHASS, M.E., Ph.D.,
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VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Month	Day	Month : December 2020	NO. OF WORKING DAYS
01-Dec	Tue		(8)
02- Dec	Wed		(9)
03-Dec	Thu		(10)
04-Dec	Fri		(11)
05- Dec	Sat		(12)
06- Dec	Sun	Holiday	(13)
07- Dec	Mon		(14)
08- Dec	Tue		(15)
09- Dec	Wed		(16)
10- Dec	Thu		(17)
11- Dec	Fri		(18)
12- Dec	Sat		(19)
13- Dec	Sun	Holiday	
14- Dec	Mon	Commencement of classes start IV YEAR	1(20)
15- Dec	Tue		2(21)
16- Dec	Wed		3(22)
17- Dec	Thu		4(23)
18- Dec	Fri		5(24)
19- Dec	Sat		6(25)
20- Dec	Sun	Holiday	
21- Dec	Mon	Internal Assessment-I STARTS(I YEAR)	7(26)
22- Dec	Tue	Internal Assessment – I	8(27)
23- Dec	Wed	Internal Assessment – I	9(28)
24- Dec	Thu	Internal Assessment – I	10(29)
25- Dec	Fri	Christmas Holiday	
26- Dec	Sat	Internal Assessment – I	11(30)
27- Dec	Sun	Holiday	
28- Dec	Mon	Internal Assessment – I END	12(31)
29- Dec	Tue		13(32)
30- Dec	Wed		14 (33)
31- Dec	Thu		15(34)



[Signature]
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 PRINCIPAL

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VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUFURAM-605 601.

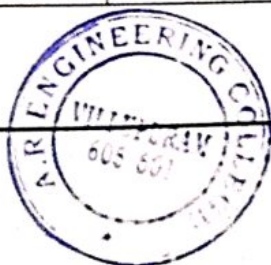
Month	Day	Month : January 2021	NO. OF WORKING DAYS
01-Jan	Fri	NEW YEAR HOLIDAY	
02- Jan	Sat		16(35)
03- Jan	Sun	Holiday	
04-Jan	Mon		17(36)
05-Jan	Tue		18(37)
06- Jan	Wed		19(38)
07- Jan	Thu		20(39)
08-Jan	Fri		21(40)
09- Jan	Sat		22(41)
10- Jan	Sun	Holiday	
11- Jan	Mon		23 (42)
12- Jan	Tue		24(43)
13- Jan	Wed		25(44)
14- Jan	Thu	PONGAL HOLIDAY	26(45)
15- Jan	Fri	THIRUVALLUVR DAY HOLIDAY	27(46)
16- Jan	Sat	UZHAVAR THIRUNAL HOLIDAY	
17- Jan	Sun	Holiday	
18- Jan	Mon		28(47)
19- Jan	Tue		29(48)
20- Jan	Wed	Internal Assessment – I Start IV YEAR	30 (49)
21- Jan	Thu	Internal Assessment – I END	31(50)
22- Jan	Fri	Internal Assessment - II STARTS(I YEAR)	32(51)
23- Jan	Sat	Internal Assessment – II	33(52)
24- Jan	Sun	Holiday Career Guidance Programme	
25- Jan	Mon	Internal Assessment – II	34(53)
26- Jan	Tue	REPUBLIC DAY	35(54)
27- Jan	Wed	Internal Assessment – II	36 (55)
28- Jan	Thu	Internal Assessment – II	37 (56)
29- Jan	Fri	Internal Assessment – II END (I YEAR)	38 (57)
30- Jan	Sat		39 (58)
31- Jan	Sun	Holiday	

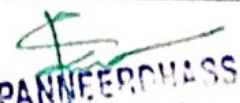


[Signature]
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ACADEMIC CALENDAR : [EVEN SEMESTER FEB 2021 – JULY 2021 FOR II,III YEAR]

Month	Day	MONTH : FEBRUARY 2021	No. of Working day
1-Feb	Mon		40(59)
2-Feb	Tue		41(60)
3-Feb	Wed		42(61)
4-Feb	Thu		43(62)
5-Feb	Fri		44(63)
6-Feb	Sat		45(64)
7-Feb	Sun	Holiday	
8-Feb	Mon		46(65)
9-Feb	Tue		47(66)
10-Feb	Wed	MODEL EXAM START I YEAR	48(67)
11-Feb	Thu	MODEL EXAM	49(68)
12-Feb	Fri	MODEL EXAM	50(69)
13-Feb	Sat	MODEL EXAM	51(70)
14-Feb	Sun	Holiday	
15-Feb	Mon	MODEL EXAM	52(71)
16-Feb	Tue	MODEL EXAM END	53(72)
17-Feb	Wed		54(73)
18-Feb	Thu	Commencement of Classes for II, III, Year	55(74)1
19-Feb	Fri		56(75)2
20-Feb	Sat		57 (76)3
21-Feb	Sun	Holiday	
22-Feb	Mon		58(77)4
23-Feb	Tue		59(78)5
24-Feb	Wed	Last working Day for I year	60(79)6
25-Feb	Thu		61,7
26-Feb	Fri	Commencement of Practical Examinations I year	62,8
27-Feb	Sat		63,9
28-Feb	Sun	Holiday	




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Month	Day	MONTH : MARCH 2021	No. of Working day
01-Mar	Mon		64,10
02-Mar	Tue		65,11
03-Mar	Wed	Internal Assessment – II Start IV YEAR	66,12
04-Mar	Thu	Internal Assessment – II END	67,13
05-Mar	Fri		68,14
06-Mar	Sat		69,15
07-Mar	Sun	Holiday	
08-Mar	Mon	Commencement of AU semester Examinations I year	70,16
09-Mar	Tue		71,17
10-Mar	Wed		72,18
11-Mar	Thu		73,19
12-Mar	Fri		74,20
13-Mar	Sat		75,21
14-Mar	Sun	Holiday	
15-Mar	Mon	Internal Assessment – I Start II,III, YEAR	76,22
16-Mar	Tue	Internal Assessment – I	77,23
17-Mar	Wed	Internal Assessment – I	78,24
18-Mar	Thu	Internal Assessment – I	79,25
19-Mar	Fri	Internal Assessment – I	80,26
20-Mar	Sat	Internal Assessment – I END	81,27
21-Mar	Sun	Holiday	
22-Mar	Mon		82,28
23-Mar	Tue		83,29
24-Mar	Wed		84,30
25-Mar	Thu		85,31
26-Mar	Fri		86,32
27-Mar	Sat		87,33
28-Mar	Sun	Holiday	
29-Mar	Mon		88,34
30-Mar	Tue		89,35
31-Mar	Wed		90,36



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Month	Day	MONTH : APRIL 2021	No. of Working day
01-Apr	Thu		91,37
02-Apr	Fri	GOOD FRIDAY HOLIDAY	92,38
03-Apr	Sat		93,39
04-Apr	Sun	HOLIDAY	
05-Apr	Mon	MODEL EXAM IV YEAR START	94,40
06-Apr	Tue	MODEL EXAM END IV YEAR	95,41
07-Apr	Wed		96,42
08-Apr	Thu	Commencement of Classes for I Year [Marked in the bracket]	97,43(1)
09-Apr	Fri		98,44(2)
10-Apr	Sat		99,45(3)
11-Apr	Sun	HOLIDAY	
12-Apr	Mon	Last Working day for IV year AU PROJECT REVIEW VIVA IV YEAR	100,46(4)
13-Apr	Tue	TELUGU NEW YEAR Holiday	47(5)
14-Apr	Wed	TAMIL NEW YEAR Holiday	
15-Apr	Thu	Commencement of practical examinations for IV year Internal Assessment – II Start II,III, YEAR	48(6)
16-Apr	Fri	Internal Assessment – II	49(7)
17-Apr	Sat	Internal Assessment – II	50(8)
18-Apr	Sun	HOLIDAY	
19-Apr	Mon	Internal Assessment – II	51(9)
20-Apr	Tue	Internal Assessment – II	52(10)
21-Apr	Wed	Internal Assessment – II END	53(11)
22-Apr	Thu		54(12)
23-Apr	Fri		53(13)
24-Apr	Sat		56(14)
25-Apr	Sun	MAHAVIR JAYANTHI HOLIDAY	
26-Apr	Mon	Commencement of AU semester Examinations IV year	57(15)
27-Apr	Tue		58(16)
28-Apr	Wed		59(17)
29-Apr	Thu		60(18)
30-Apr	Fri		61(19)



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Month	Day	MONTH : MAY 2021	No. of Working day
01-May	Sat	MAY DAY HOLIDAY	
02-May	Sun	HOLIDAY	
03-May	Mon	Internal Assessment – I START (I YEAR)	62(20)
04-May	Tue	Internal Assessment - I	63(21)
05-May	Wed	Internal Assessment – I	64(22)
06-May	Thu	Internal Assessment – I	65(23)
07-May	Fri	Internal Assessment – I	66(24)
08-May	Sat	Internal Assessment – I END I YEAR	67(25)
09-May	Sun	HOLIDAY	
10-May	Mon	MODEL EXAM START II,III YEAR	68(26)
11-May	Tue	MODEL EXAM	69(27)
12-May	Wed	MODEL EXAM	70(28)
13-May	Thu	MODEL EXAM	71(29)
14-May	Fri	RAMZAN HOLIDAY	72(30)
15-May	Sat	MODEL EXAM	73(31)
16-May	Sun	HOLIDAY	
17-May	Mon	MODEL EXAM END II,III YEAR	74(32)
18-May	Tue		75(33)
19-May	Wed	Last working Day for II,III year	76(34)
20-May	Thu		(35)
21-May	Fri		(36)
22-May	Sat		(37)
23-May	Sun	HOLIDAY	
24-May	Mon	Commencement of Practical Examinations II,III year	(38)
25-May	Tue		(39)
26-May	Wed		(40)
27-May	Thu		(41)
28-May	Fri		(42)
29-May	Sat		(43)
30-May	Sun	HOLIDAY	(44)
31-May	Mon	Internal Assessment – I START (I YEAR)	(45)



[Signature]
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Month	Day	MONTH : JUNE 2021	No. of Working day
01-Jun	Tue	Last Working Day for II, III Year Internal Assessment – II	(46)
02-Jun	Wed	Commencement of AU Semester Examinations - II, III Year Internal Assessment – II	(47)
03-Jun	Thu	Internal Assessment – II	(48)
04-Jun	Fri	Internal Assessment – II	(49)
05-Jun	Sat	Internal Assessment – II END I YEAR	(50)
06-Jun	Sun	HOLIDAY	
07-Jun	Mon		(51)
08-Jun	Tue		(52)
09-Jun	Wed		(53)
10-Jun	Thu		(54)
11-Jun	Fri		(55)
12-Jun	Sat		(56)
13-Jun	Sun	HOLIDAY	
14-Jun	Mon		(57)
15-Jun	Tue		(58)
16-Jun	Wed		(59)
17-Jun	Thu		(60)
18-Jun	Fri		(61)
19-Jun	Sat		(62)
20-Jun	Sun	HOLIDAY	
21-Jun	Mon	YOGA DAY	(63)
22-Jun	Tue		(64)
23-Jun	Wed		(65)
24-Jun	Thu		(66)
25-Jun	Fri		(67)
26-Jun	Sat		(68)
27-Jun	Sun	HOLIDAY	
28-Jun	Mon		(69)
29-Jun	Tue		(70)
30-Jun	Wed	MODEL EXAM START I YEAR	(71)



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Month	Day	MONTH : JULY 2021	No. of Working day
01-July	Thu	MODEL EXAM	(72)
02-July	Fri	MODEL EXAM	(73)
03-July	Sat	MODEL EXAM	(74)
04-July	Sun	HOLIDAY	
05-July	Mon	MODEL EXAM	(75)
06-July	Tue	MODEL EXAM END 1 YEAR	(76)
07-July	Wed		(77)
08-July	Thu	Last Working Day for 1 Year	(78)
09-July	Fri		
10-July	Sat	Commencement of Practical Examinations 1 Year	
11-July	Sun	HOLIDAY	
12-July	Mon		
13-July	Tue		
14-July	Wed		
15-July	Thu		
16-July	Fri		
17-July	Sat		
18-July	Sun	HOLIDAY	
19-July	Mon		
20-July	Tue		
21-July	Wed		
22-July	Thu	Commencement of AU Semester Examinations - 1 Year	
23-July	Fri		
24-July	Sat		
25-July	Sun	HOLIDAY	
26-July	Mon		
27-July	Tue		
28-July	Wed		
29-July	Thu		
30-July	Fri		
31-July	Sat		



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INTERNAL ASSESSMENT SCHEDULE EVEN SEMESTER 2020 - 21




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : December 2020 – May 2021 (Even Semester – Final Semester) Examinations

For all UG/PG Programmes

Report No	Report Period	Test Period	Report Entry Period
I	14-12-2020 – 07-01-2021	No Test	20-02-2021 – 25-02-2021
II	08-01-2021 – 30-01-2021	25-01-2021 – 30-01-2021	26-02-2021 – 05-03-2021
III	18-02-2021 – 15-03-2021	10-03-2021 – 15-03-2021	16-03-2021 – 22-03-2021
IV	17-03-2021 – 12-04-2021	05-04-2021 – 12-04-2021	12-04-2021 – 15-04-2021

Period : February 2021 – June 2021 (Even Semester – Except II & Final Semester) Examinations

For all UG/PG Programmes

Report No	Report Period	Test Period	Report Entry Period
I	18-02-2021 – 06-03-2021	No Test	06-03-2021 – 11-03-2021
II	08-03-2021 – 30-03-2021	25-03-2021 – 30-03-2021	30-03-2021 – 08-04-2021
III	31-03-2021 – 25-04-2021	20-04-2021 – 25-04-2021	26-04-2021 – 31-04-2021
IV	27-04-2021 – 21-05-2021	17-05-2021 – 21-05-2021	21-05-2021 – 24-05-2021

Saturdays may be included as working days to make good the Shortages, if any.

19/02/2021

CONTROLLER OF EXAMINATIONS



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ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : April 2021 - July 2021 (EVENT SEMESTER - II Semester)

UG (FT/PT) Degree Programmes

Report No	Report Period	Test Period	Report Entry Period
I	08-04-2021 -- 27-04-2021	No Test	05-05-2021 -- 10-05-2021
II	28-04-2021 -- 22-05-2021	18-05-2021 -- 22-05-2021	22-05-2021 -- 27-05-2021
III	24-05-2021 -- 15-06-2021	10-06-2021 -- 15-06-2021	15-06-2021 -- 19-06-2021
IV	16-06-2021 -- 08-07-2021	03-07-2021 -- 08-07-2021	08-07-2021 -- 09-07-2021

PG (FT) Degree Programmes (EXCEPT MCA)

Report No	Report Period	Test Period	Report Entry Period
I	03-05-2021 -- 20-05-2021	No Test	20-05-2021 -- 25-05-2021
II	21-05-2021 -- 15-06-2021	10-06-2021 -- 15-06-2021	15-06-2021 -- 19-06-2021
III	16-06-2021 -- 10-07-2021	06-07-2021 -- 10-07-2021	10-07-2021 -- 15-07-2021
IV	12-07-2021 -- 06-08-2021	02-08-2021 -- 06-08-2021	06-08-2021 -- 08-08-2021

Saturdays may be included as working days to make good the Shortages, if any.

Controller of Examinations



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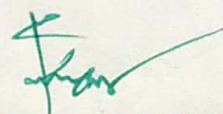


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SUBJECT ALLOCATION




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DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

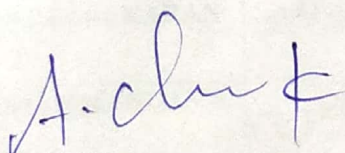
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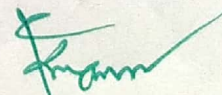
(ODD SEM 2020 -2021)

CIR. No.: AREC/EEE/CIR/01

Date: 04.08.2020

It is to inform that subject allocation meeting for the forth coming semester AUG - DEC 2020 will be held on 06.08.2020 at 11.00 am in Department of EEE. All the faculty members are invited to attend the meeting without fail. The list of subjects available for the forth coming semester and preferences of subject form are enclosed with this circular. All the staff are requested to fill up the preferences from enclosed.


HOD


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SUBJECT PREFERENCES FORM - (ODD SEM)

PERIOD: JUL 2021 – NOV 2021

S. N O	STAFF NAME	THEORY 1		THEORY2		PRACTICAL		SIGN
		OPT- 1	OPT-2	OPT- 1	OPT-2	OPT- 1	OPT-2	
1	MR. UDAYAKUMAR S	EE8401		EE8601		EE8411	EE8661	<i>[Signature]</i>
2	MS. ALAMELUMANGAI G	EE8451		EE8602		EE8461		<i>[Signature]</i>
3	MS. SRIVARSS	EE8019		EE8076		EE8881		<i>[Signature]</i>
4	MR. KARTHIK P	EE8451		EE8602		EE8442		<i>[Signature]</i>
5	MS. INDHUMATHI G	EE8002				EE8611	EE8411	<i>[Signature]</i>
6	MR. CHANDRASEKARAN A	EE8491		EE8691		EE8811		<i>[Signature]</i>
7	MR. MANIKANDAN K	EE8005				EE8461		<i>[Signature]</i>

Note: Kindly enter only the subject code of your preferred subject.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TIME TABLE - EVEN SEMESTER (2020-2021)

YEAR/SEM: II / IV

CLASS ADVISOR :MS. ABHIRAMI A N

PERIOD	1	2	3	4	5
Day/Time	10.00 to 11.00	11.10 to 12.10	12.15 to 1.15	2.00 to 3.00	3.00 to 4
MONDAY	EM-II	LIC	NM	M&I	TD
TUESDAY	NM	EM II	M&I	CS	LIC
WEDNESDAY	TD	NM	LIC	CS	ES
THURSDAY	MI	NM	TD	CS	EM II
FRIDAY	CS	NM	CS	EM-II	M&I
SATURDAY	LIC	M&I	NM	T&D	CS

THEORY

SL.NO	SUBJECT CODE	SUBJECT NAME	STAFF NAME	NO OF HOURS
1	EE8401	ELECTRICAL MACHINES - II	MS. ABHIRAMI A N	5
2	EE8402	TRANSMISSION AND DISTRIBUTION	Mr.K.MANIKANDAN	5
3	EE8403	MEASUREMENTS AND INSTRUMENTATION	Mr.S.UDHAYA KUMAR	5
4	IC8451	CONTROL SYSTEMS	MRS.MAHESWARIA	5
5	EE8451	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS	MS.MANIMEGALAI R	5
6	MA8491	NUMERICAL METHODS	MS.M.CHITRA	5

PRACTICAL

7	EE8411	ELECTRICAL MACHINES LABORATORY - I	MS. ABHIRAMI A N	
8	EE8461	LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	MS.MANIMEGALAI R	
9	EE8412	TECHNICAL SEMINAR	Mr.P.KARTHIK	



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TIME TABLE - EVEN SEMESTER (2020-2021)

YEAR/SEM: III / VI		CLASS ADVISOR : Mr. P. KARTHIK									
PERIOD	1	2		3		4		5			
Day/Time	10.00 to 11.00	11.10 to 12.10		12.15 to 1.15		2.00 to 3.00		3.00 to 4			
MONDAY	DEA	ES		PSG		SSD		SEM			
TUESDAY	SEM	SSD		DEA		ES		PSG			
WEDNESDAY	PSG	DEA		SEM		SSD		ES			
THURSDAY	SSD	PSG		ES		DEA		SEM			
FRIDAY	ES	SEM		SSD		DEA		PSG			
SATURDAY	DEA	ES		PSG		SEM		SSD			

THEORY

Sl.No.	Sub. Code	SUBJECT NAME	Staff Name	NO OF HOURS
1	EE8601	SOLID STATE DRIVES	Mr. P. KARTHIK	6
2	EE8602	PROTECTION AND SWITCHGEAR	MR. GNANAVEL G	6
3	EE8002	DESIGN OF ELECTRICAL APPARATUS	MR. KAMALAKANNAN V	6
4	EE8005	SPECIAL ELECTRICAL MACHINES	MR. RAJAN B	6
5	EE8691	EMBEDDED SYSTEMS	MS. ABHIRAMI A N	6

PRACTICAL

7	EE8661	POWER ELECTRONICS AND DRIVES LAB	MR. UDAYAKUMAR S	
8	EE8681	MICROPROCESSOR AND MICROCONTROLLER	Mr. P. KARTHIK	
9	EE8611	MINI PROJECT	MR. RAJAN B	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TIME TABLE - EVEN SEMESTER (2020-2021)

YEAR/SEM: IV / VIII

CLASS ADVISOR : Mr.K.MANIKANDAN

PERIOD	1	2	3	4
Day/Time	10.00 to 11.00	11.10 to 12.10	12.15 to 1.15	2.00 to 3.00
MONDAY	PEE	SG	PEE	SG
TUESDAY	SG	PEE	SG	PEE
WEDNESDAY	PROJECT	PROJECT	PROJECT	PROJECT
THURSDAY	PROJECT	PROJECT	PROJECT	PROJECT
FRIDAY	PROJECT	PROJECT	PROJECT	PROJECT

THEORY

Sl.No.	SUBJECT CODE	SUBJECT NAME	Staff Name	NO OF HOURS
1	EE8019	SMART GRID		4
2	GE8076	PROFESSIONAL ETHICS IN ENGINEERING		4
PRACTICAL				
4	EE8811	PROJECT WORK	MR. G. PANNEERDHAS, M.E., Ph.D.	12



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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.



A. R. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to Anna university, Chennai)
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.
DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

COURSE COMMITTEE MEETING

REF : AREC / CIVIL/01

Date :22.02.2021

CIRCULAR

It is planned to conduct the course committee meeting for the course EE6601 – SOLID STATE DRIVES meeting will be held on 23.02.2021 at 1.15 Pm. The following staff members those who are handling the above course are requested to attend the meeting in time without fail.

CONVENER :

MR. CHANDRASEKARAN.A, AP/EEE -

COMMITTEE MEMBERS :

1. MR.P.KARTHIK, AP/EEE -

2. MR.GNANAVEL.G AP/EEE -

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Dr. R. PANNEERDHASS, M.E., Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

COURSE COMMITTEE MEETING

REF : AREC /CIVIL/ 01

Date :23.02.2021

MINUTES OF MEETING

The course committee meeting for the course EE6601 – SOLID STATE DRIVES was conducted on 23.02.2021 at CIVIL at 1.10 pm. The following staff members were present.

CONVENER :

MR. CHANDRASEKARAN.A, AP/EEE - *A. Chandrasekaran*

COMMITTEE MEMBERS :

1. MR.P.KARTHIK, AP/EEE - *P. Karthik*

2. MR.GNANAVEL.G AP/EEE - *G. Gnanaavel*

The following discussions are made :

1. The staff members are instructed to complete first and second units
2. The staff members are instructed to conduct daily test in their class hours itself.
3. Counseling to be done for those students who are obtained less than 50% of marks in the class test to improve their performance in forthcoming tests.
4. Staff are instructed to check the class notes of the students regularly.

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A. Chandrasekaran
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COURSE PLAN

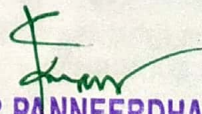
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EVEN SEMESTER 2020- 2021

S. No	Contents	Page No
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SYLLABUS

EE8601 – SYLLABUS

UNIT I DRIVE CHARACTERISTICS

Electric drive — Equations governing motor load dynamics — steady state stability — multi quadrant Dynamics: acceleration, deceleration, starting & stopping — typical load torque characteristics — Selection of motor.

UNIT II CONVERTER /CHOPPER FED DC MOTOR DRIVE

Steady state analysis of the single and three phase converter fed separately excited DC motor drive— continuous conduction — Time ratio and current limit control — 4 quadrant operation of converter / chopper fed drive-Applications.

UNIT III INDUCTION MOTOR DRIVES

Stator voltage control—V/f control— Rotor Resistance control-qualitative treatment of slip power recovery drives-closed loop control— vector control- Applications.

UNIT IV SYNCHRONOUS MOTOR DRIVES

V/f control and self-control of synchronous motor: Margin angle control and power factor control- Three phase voltage/current source fed synchronous motor- Applications.

UNIT V DESIGN OF CONTROLLERS FOR DRIVES

Transfer function for DC motor /load and converter — closed loop control with current and speed feedback—armature voltage control and field weakening mode — Design of controllers; current controller and speed controller- converter selection and characteristics.




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COURSE PLAN

Course Code /Course Name: EE8601& Solid State Drives

CO No.	Course Outcomes (COs)
C310.1	Explain steady state operation and transient dynamics of a motor load system
C310.2	Illustrate the Operation of the Converter / Chopper Fed DC Drive.
C310.3	Interpret the Operation and Performance of Induction Motor Drives.
C310.4	Understand the operation and performance of Synchronous Motor Drives.
C310.5	Construct the Current and Speed Controllers for a Closed Loop Solid State DC Motor Drive.




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LESSON PLAN

Hours	Topics	BookandRef
	<u>Unit-I</u> Discussion	R1,R2,
Hour-1	on the modelling, analysis and control	
Hour-2	TorqueSlipCharacteristics	R1
Hour-3	Operation with different typesofloads	R1,R4
Hour-4	Comparisonofdifferentac powercontrollers	R1,R4
Hour-5	Speedreversal	R1,R4
Hour-6	ClosedloopcontrolSimple	R1,R4
Hour-7	4-quadrantoperation	R1,R4
Hour-8	Problems	R1,R4
Hour-9	Problems	R1,R2,R3,R4
	<u>Unit-II</u>	,R4
Hour-13	Operation of induction motor withnon-sinusoidalsupply waveforms	
Hour-14	<u>Variablefrequencyoperatio</u> <u>n</u> <u>of three phase</u> <u>induction motors</u>	R4
Hour-15	<u>ConstantfluxOperation</u>	R4
Hour-16	<u>VVVF</u>	R4
Hour-20	<u>VSIfeddrive</u>	R4
Hour-21	<u>CSIfeddrive</u>	R4
Hour-22	<u>Slipcontrol</u>	R4
Hour-23	<u>Problems.</u>	R4
Hour-24	<u>Problems.</u>	R4
Hour-29	<u>Problems.</u>	R4
	<u>Unit-III</u>	R2,R3
Hour-30	<u>Torqueslipcharacteristics</u>	




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Hour-31	<u>Speed control through slip-rotor resistance (RR) control</u>	R2, R4
Hour-32	<u>Chopper controlled resistance - equivalent resistance -</u>	R1, R4
Hour-33	<u>TRC strategy - characteristic relation between slip and chopper duty ratio</u>	R1, R4
Hour-34	<u>Combined stator voltage control and rotor resistance control</u>	R1, R3, R4
Hour-35	<u>Closed loop RR control scheme</u>	R1, R4
Hour-40	<u>Slip power recovery</u>	R1, R4
Hour-41	<u>Subsynchronous operation</u>	R1, R4
Hour-42	<u>Supersynchronous operation</u>	R1, R4
Hour-43	<u>Closed loop control scheme</u>	R1, R4
Hour-48	<u>Problems</u>	R1, R4
Hour-49	<u>Problems</u>	R1, R4
Hour-50	<u>Problems</u>	R1, R4
Hour-51	<u>Unit-IV Introduction to Field oriented control of induction machines</u>	R1, R4
Hour-52	<u>Dynamic Modelling of Induction Machines</u>	R1, R4
Hour-53	<u>Introduction to Field oriented Control (FOC) of induction machines</u>	R1, R4
Hour-58	<u>Theory FOC</u>	R1, R4
Hour-59	<u>DC drive analogy</u>	R1, R4
Hour-60	<u>Direct methods</u>	R1, R4
Hour-61	<u>Indirect methods</u>	R1, R4




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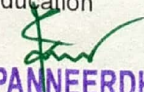
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Hour-62	<u>Estimationflux</u>	R1,R4
Hour-63	<u>Fluxvectorestimationusin</u> <u>g</u> <u>currentmodeequations</u>	R1,R4
Hour-64	<u>Fluxvectorestimationusin</u> <u>g</u> <u>voltagemodel</u>	R1,R4
Hour-65	<u>Problems</u>	R1,R4
Hour-66	<u>Problems</u>	R1,R4
Hour-67	<u>Unit-V</u> <u>Need for leading</u> <u>PF</u> <u>operation</u>	R1,R4
Hour-68	<u>OpenloopVSIfeddrive-</u> <u>groupdriveApplications</u>	R1,R4
Hour-69	<u>Self-control</u>	R1,R4
Hour-70	<u>Marginanglecontrol-</u> <u>torque</u> <u>anglecontrol</u>	R1,R4
Hour-71	<u>Powerfactorcontrol-simple</u> <u>designexamples</u>	R1,R4
Hour-72	<u>Closed loop speed control</u> <u>scheme with various</u> <u>power</u> <u>controllers</u>	R1,R4
Hour-73	<u>Closed loop speed control</u> <u>scheme with various</u> <u>power</u> <u>controllers</u>	R1,R4
Hour-74	<u>Startingmethods</u>	R1,R4
Hour-75	<u>Brushless excitation</u> <u>systems.</u>	R1,R4

REFERENCES

1. Gopal Dubey, "Power semiconductor controlled drives", Prentice Hall Inc., New Jersey, 1989.
2. R.Krishnan, "Electric motor drives- modeling, analysis and control", Prentice-Hall of India Pvt. Ltd., New Delhi, 2007.
3. Bimal K Bose, "Modern power electronics and AC drives", Pearson Education (Singapore) Ltd., New Delhi, 2005.




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4. Murphy J.M.D, Turnbull, F.G, "Thyristor control of AC motor", Pergamon press, Oxford, 1988.

ASSIGNMENT DETAILS:

S.NO	ASSIGNMENT TITLE
1	Combined stator voltage control and rotor resistance control
2	Openloop VSI fed drive- group drive Applications
3	Speed control through slip- rotor resistance (RR) control




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STUDENTS NAME LIST

S.NO	REG.NO	NAME
1	420318105001	DHARANEESHKUMAR R
2	420318105002	GAYATHRI M

STUDENTS INTERNAL MARKS

S.NO	REG.NO	NAME	IA-1	IA-2
1	420318105001	DHARANEESHKUMAR R	65	62
2	420318105002	GAYATHRI M	95	90




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CO-PO MAPPING

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes	
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12		
CO101.1	K3, A2	-	-	-	-	-	-	-	-	-	2	-	3		
CO101.2	K2, A2	-	-	-	-	-	-	-	-	2	2	-	3		
CO101.3	A2	-	-	-	-	-	-	-	-	-	2	-	3		
CO101.4	A2	-	-	-	-	-	-	-	-	-	2	-	3		
CO101.5	A3	-	-	-	-	-	-	-	-	3	2	-	3		




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EEE**INTERNAL ASSESMENT-1 EXAM**

Programme & Branch	B.E & Electrical and Electronics Engineering	Semester	VI
Course code & Name	EE 8601- SOLID STATE DRIVES	Date	10.03.2023
Maximum Marks	100	Duration and Time	3.00 Hrs&10.00am-1.00pm

PART-A(Answer ALL questions)**(10 X 2 = 20 Marks)**

Q.No	Questions	Blooms Level	CO	Mark
1	Define Dynamic Braking ?	BL-1	1	2
2	Define electrical drive	BL-2	1	2
3	Define the speed control methods of DC Motor	BL-5	1	2
4	Differentiate between continuous and discontinuous Conduction mode.	BL-6	1	2
5	Define three regions in speed vs torque characteristics of induction motor.	BL-5	1	2
6	Discuss stator voltage control method.	BL-4	1	2
7	Explain self control of synchronous motor.	BL-6	1	2
8	Explain when a synchronous motor can be load commutated.	BL-1	1	2
9	List the merits and demerits of VSI fed synchronous motor.	BL-2	1	2
10	What is slip power recovery scheme?	BL-3	1	2

PART-B(Answer ALL questions)**(5X13 = 65 Marks)**

Q.NO	Questions	Blooms Level	CO	Mark
6 a	Compose the mathematical condition to obtain steady State stability of equilibrium point.	BL-2	1	13
(or)				
6 b	Explain in detail the multi quadrant operation of low Speed hoist in speed torque plane.	BL-1	1	13
7 a	Compose the operation of single phase controlled converter Fed separately excited DC motor in continuous and Discontinuous modes with neat diagram, waveforms and Comment the steady state analysis	BL-6	2	13
(or)				
7 b	Describe about Electrical –mechanical characteristics of Commonly used electric motors.	BL-3	2	13



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Q.NO	Questions	Blooms Level	CO	Mark
8 a	Explain the four modes of operation of a Static Scherbius Drive with diagram.	BL-2	2	13

(or)

8 (b)	Explain in detail about the vector control for a three phase induction motor.	BL-1	2	13
9 a	Compose in detail about the closed loop operation of Armature voltage control method with field weakening mode control in detail.	BL-6	2	13

(or)

9 (b)	Describe the closed loop operation of permanent magnet synchronous motor drive in details.	BL-1	1	13
10 a	Discuss the Various application of three phase voltage source inverter fed synchronous motor drive.	BL-6	1	13

(or)

10 b	Describe using a diagram the working of a voltage source inverter fed synchronous motor Drive.	BL-2	2	14
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PART-C(Answer ALL questions)		(1X15 =15 Marks)		
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Q.NO	Questions	Blooms Level	CO	Mark
11 a	Discuss with the suitable mathematical model, the Analysis of steady state stability of an electrical drive.	BL-6	1	14

(or)

11 b	Describe about Electrical –mechanical characteristics of Commonly used electric motors.	BL-2	2	14
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BLOOMS LEVEL	MARKS
1	10
2	20
3	14
4	20
5	16
6	20



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TOTAL	100
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Q.NO	COURSE OUTCOMES	MARKS
1,2,7,8,10 11A,12b,13a,14b,15a,16b	To acquire knowledge on basic functional elements of instrumentation	44
3,4,5,9,11b,12a,13b,15b	To understand the concept of electrical and electronic instruments	56

A. Chel.
HoD/EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

INTERNAL ASSESSMENT EXAM-I EVEN SEM(15-03-2021 TO 20-03-2021)

TIME TABLE

MAX.MARKS:100

TIME: 10 AM TO 1 PM

SECOND YEAR

DATE	SUBJECT CODE	SUBJECT NAME
15.03.2021	EE 8401	ELECTRICAL MACHINES - II
16.03.2021	EE 8402	TRANSMISSION AND DISTRIBUTION
17.03.2021	EE8403	MEASUREMENTS AND INSTRUMENTATION
18.03.2021	IC8451	CONTROL SYSTEMS
19.03.2021	EE8451	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS
20.03.2021	MA8491	NUMERICAL METHODS

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
15.03.2021	EE8601	SOLID STATE DRIVES
16.03.2021	EE8602	PROTECTION AND SWITCHGEAR
17.03.2021	EE8005	SPECIAL ELECTRICAL MACHINES
18.03.2021	EE8002	DESIGN OF ELECTRICAL APPARATUS
19.03.2021	EE8691	EMBEDDED SYSTEMS

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
20.01.2021	EE8019	SMART GRID
21.01.2021	GE8076	PROFESSIONAL ETHICS IN ENGINEERING

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INTERNAL ASSESSMENT EXAM-II EVEN SEM(15.04.2021 TO 21.04.2021)

TIME TABLE

MAX.MARKS:100

TIME: 10 AM TO 1 PM

SECOND YEAR

DATE	SUBJECT CODE	SUBJECT NAME
15.04.2021	EE 8401	ELECTRICAL MACHINES - II
16.04.2021	EE 8402	TRANSMISSION AND DISTRIBUTION
17.04.2021	EE8403	MEASUREMENTS AND INSTRUMENTATION
19.04.2021	IC8451	CONTROL SYSTEMS
20.04.2021	EE8451	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS
21.04.2021	MA8491	NUMERICAL METHODS

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
15.04.2021	EE8601	SOLID STATE DRIVES
16.04.2021	EE8602	PROTECTION AND SWITCHGEAR
17.04.2021	EE8005	SPECIAL ELECTRICAL MACHINES
19.04.2021	EE8002	DESIGN OF ELECTRICAL APPARATUS
20.04.2021	EE8691	EMBEDDED SYSTEMS

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
03.03.2021	EE8019	SMART GRID
04.03.2021	GE8076	PROFESSIONAL ETHICS IN ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MODEL EXAM EVEN SEM(10-05-2021 TO 15-05-2021)

TIME TABLE

MAX.MARKS:100

TIME: 10 AM TO 1 PM

SECOND YEAR

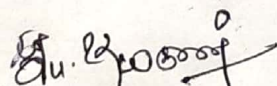
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10.05.2021	EE 8401	ELECTRICAL MACHINES - II
11.05.2021	EE 8402	TRANSMISSION AND DISTRIBUTION
12.05.2021	EE8403	MEASUREMENTS AND INSTRUMENTATION
13.05.2021	IC8451	CONTROL SYSTEMS
14.05.2021	EE8451	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS
15.05.2021	MA8491	NUMERICAL METHODS

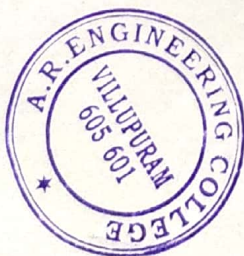
THIRD YEAR

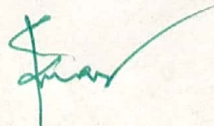
DATE	SUBJECT CODE	SUBJECT NAME
10.05.2021	EE8601	SOLID STATE DRIVES
11.05.2021	EE8602	PROTECTION AND SWITCHGEAR
12.05.2021	EE8005	SPECIAL ELECTRICAL MACHINES
13.05.2021	EE8002	DESIGN OF ELECTRICAL APPARATUS
14.05.2021	EE8691	EMBEDDED SYSTEMS

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
05.04.2021	EE8019	SMART GRID
06.04.2021	GE8076	PROFESSIONAL ETHICS IN ENGINEERING


HOD





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VILLUPURAM-605 601.



A. R. ENGINEERING COLLEGE

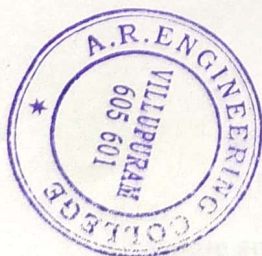
(Approved by AICTE, New Delhi & Affiliated to Anna university, Chennai)
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

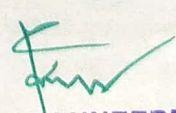
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EVEN SEMESTER 2020- 2021

CLASS COMMITTEE MEETING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2020-21 –EVEN SEM

Date :14.12.2020

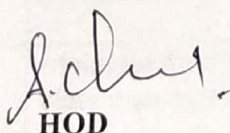
CIRCULAR

The first class committee meeting for VIII semester EEE is to be held on 15.12.2020 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

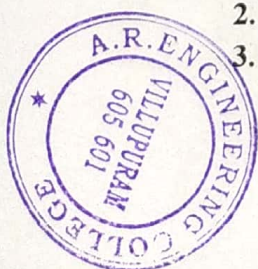
- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Batch preparation and research topics were chosen for the project work.
- Placement activities for final – year students.

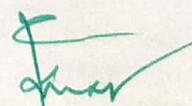
S.NO	NAME	DESIGNATION
1	MR. KARTHIK P ,AP/ EEE	Chair person
2	MR.CHANDRA SEKARA, AP/ EEE	HOD
3	MR. UDAYAKUMAR S, AP/EEE	Member
4	MS.ALAMELUMANGAI G, AP/EEE	Member
5	MS. SRIVAJRA SS, AP/EEE	Member
6	MAHALAKSHMI S	Student Representative
7	RAJALAKSHMI T	Student Representative
8	HARIRAJ R	Student Representative
9	RAVIKUMAR R	Student Representative


HOD

Copy to:

1. Circulate among staff members.
2. Class advisor File.
3. Final – year students.




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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CLASS COMMITTEE MEETING

(ACADEMIC YEAR 2020- 21)

REF : AREC / EEE/01 /2020-21 –EVEN SEM

Date :15.12.2020

Minutes of meeting

The first class committee meeting for VIII Semester EEE was held on 15.12.2020 at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION
1	MR. KARTHIK P ,AP/ EEE	Chair person
2	MR.CHANDRA SEKARA, AP/ EEE	HOD
3	MR. UDAYAKUMAR S, AP/EEE	Member
4	MS.ALAMELUMANGAI G, AP/EEE	Member
5	MS. SRIVAJRA SS, AP/EEE	Member
6	MAHALAKSHMI S	Student Representative
7	RAJALAKSHMI T	Student Representative
8	HARIRAJ R	Student Representative
9	RAVIKUMAR R	Student Representative

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructed the students to select the elective subject.
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct



3

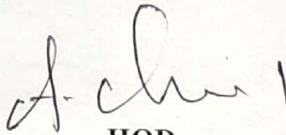
Dr.R.PANNEERDHASS, M.E., Ph.D.,
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		slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.
7	Students were instructed to choose good research topics and prepare batches for the project.	HOD advised the students to choose creative and innovative research topics for the project and get approval from the guide.
8	Students are advised to prepare well to attend the placements and other exams.	Placement coordinators are instructed to identify new additional recruiters and arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.


HOD

Copy

1. Circulate among staff members.
2. Class advisor File.




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2020-21 –EVEN SEM

Date :19.02.2021

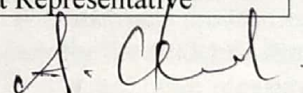
CIRCULAR

The first class committee meeting for VI semester EEE is to be held on 20.02.2021 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Batch preparation and research topics were chosen for the project work.
- Placement activities for final – year students.

S.NO	NAME	DESIGNATION
1	MS. INDHUMATHI G	Chair person
3	MR.CHANDRA SEKARA, AP/EEE	HOD
4	MR. KARTHIK P	Member
5	MR. MANIKANDAN K	Member
6	DHARANEESHKUMAR R	Student Representative
7	GAYATHRI M	Student Representative


HOD

Copy to:

4. Circulate among staff members.
5. Class advisor File.
6. Final – year students.


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CLASS COMMITTEE MEETING

EF : AREC / EEE/01 /2020-21 –EVEN SEM

Date : 20.02.2021

Minutes of meeting

The first class committee meeting for VI Semester EEE was held on 20.02.2021 at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION
1	MS. INDHUMATHI G	Chair person
2	MR.CHANDRA SEKARA, AP/ EEE	HOD
3	MR. KARTHIK P	Member
4	MR. MANIKANDAN K	Member
5	Mr. VINOTH A AP/CIVIL	Member
6	DHARANEESHKUMAR R	Student Representative
7	GAYATHRI M	Student Representative

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the students to select the elective subject.
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.



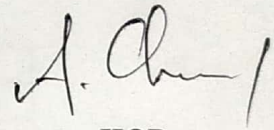

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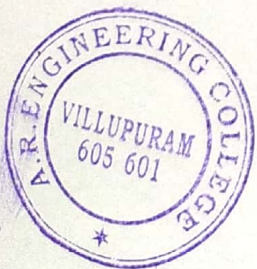
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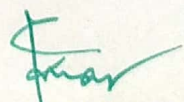
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.
7	Students were instructed to choose good research topics and prepare batches for the project.	HOD advised the students to choose creative and innovative research topics for the project and get approval from the guide.
8	Students are advised to prepare well to attend the placements and other exams.	Placement coordinators are instructed to identify new additional recruiters and arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.


HOD

Copy

1. Circulate among staff members.
2. Class advisor File.




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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2020-21 –EVEN SEM

Date :19.2.2021

CIRCULAR

The first class committee meeting for IV semester EEE is to be held on 20.2.2021 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Batch preparation and research topics were chosen for the project work.
- Placement activities for final – year students.

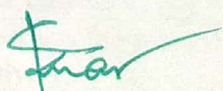
S.NO	NAME	DESIGNATION
1	MR. KARTHIK P ,AP/ EEE	Chair person
2	MR.CHANDRA SEKARA, AP/ EEE	HOD
3	MR. UDAYAKUMAR S, AP/EEE	Member
4	MS.ALAMELUMANGAI G, AP/EEE	Member
5	MS. SRIVAJRA SS, AP/EEE	Member
6	KRISHNARAJ R	Student Representative
7	LASARVIJAY B	Student Representative

HOD

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7. Circulate among staff members.
8. Class advisor File.
9. Final – year students.




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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2020-21 –EVEN SEM

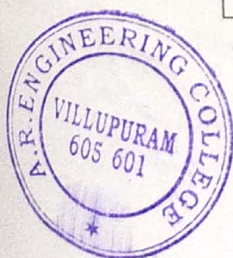
Date:28.1.2021

Minutes of meeting

The first class committee meeting for IV Semester EEE was held on 20.2.2021 at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR. KARTHIK P ,AP/ EEE	Chair person	
2	MR.CHANDRA SEKARA, AP/ EEE	HOD	
3	MR. UDAYAKUMAR S, AP/EEE	Member	
4	MS.ALAMELUMANGAI G, AP/EEE	Member	
5	MS. SRIVAJRA SS, AP/EEE	Member	
6	KRISHNARAJ R	Student Representative	
7	LASARVIJAY B	Student Representative	

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the students to select the elective subject.



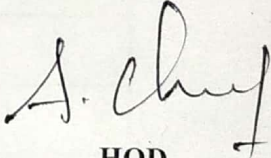
[Signature]
Dr. R. PANNEERDHASS, M.E., Ph.D.,
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KAPPIYAMPULIYUR POST,
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5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.
7	Students were instructed to choose good research topics and prepare batches for the project.	HOD advised the students to choose creative and innovative research topics for the project and get approval from the guide.
8	Students are advised to prepare well to attend the placements and other exams.	Placement coordinators are instructed to identify new additional recruiters and arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.

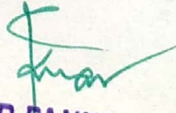

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1. Circulate among staff members.
2. Class advisor File.



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Dr. R. PANNEERDHASS, M.E., Ph.D.,
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KAPPIYAMPULIYUR POST,
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CLASS COMMITTEE MEETING

REF : AREC / EEE /01 /2020-21 –EVEN SEM

Date :27.01.2021

CIRCULAR

The second class committee meeting for VIII semester EEE is to be held in the HOD cabin on 28.01.2021 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- University result analysis for the previous semester.
- Status of the project work and conduct review for students.
- Internship benefits.
- Students gets fellowships in various project in reputed organization.

S.NO	NAME	DESIGNATION	SIGN
1	MR. KARTHIK P ,AP/ EEE	Chair person	
2	MR.CHANDRA SEKARA, AP/ EEE	HOD	
3	MR. UDAYAKUMAR S, AP/EEE	Member	
4	MS.ALAMELUMANGAI G, AP/EEE	Member	
5	MS. SRIVAJRA SS, AP/EEE	Member	
6	RAJALAKSHMI T	Student Representative	
7	HARIRAJ R	Student Representative	

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1. Circulate among staff members.
2. Class advisor File.
3. Final – year students.

[Signature]
HOD



[Signature]
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CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2022-23 –EVEN SEM

Date :28.01.2021

Minutes of meeting

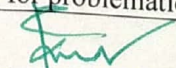
The second class committee meeting for VIII Semester EEE was held on 28.01.2021 at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION
1	MR. KARTHIK P ,AP/ EEE	Chair person
2	MR.CHANDRA SEKARA, AP/ EEE	HOD
3	MR. UDAYAKUMAR S, AP/EEE	Member
4	MS.ALAMELUMANGAI G, AP/EEE	Member
5	MS. SRIVAJRA SS, AP/EEE	Member
6	RAJALAKSHMI T	Student Representative
7	HARIRAJ R	Student Representative

S.NO	Points discussed	Action taken
1	HOD instructed the students to submit their details for the convocation and clear the fees due.	Class advisor collect the data sheet of students and prepare the convocation details.
2	HOD instructed the students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve their skills through an internship and in-plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	Students were instructed to update the current status of the project.	A final review was conducted by the coordinator who informed to submit the final report and project kit to the guide.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.



12


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6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposium to develop their knowledge.	Display the brochures of various events conducted by the other institution on the notice board. And encourage the students to participate.
8	HOD instructed the students to register for apprenticeships in government and private industries.	HOD explain the process of registration for apprenticeship and its benefits to the students.

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1. Circulate among staff members.
2. Class advisor File.



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CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2020-21 –EVEN SEM

Date :29.0.2021

CIRCULAR

The second class committee meeting for VI semester EEE is to be held in the HOD cabin on 30.03.2021 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

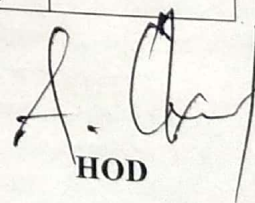
Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.
- Status of the mini –project.
- Actively participate in paper presentations and symposiums.

S.NO	NAME	DESIGNATION	SIGN
1	MS. INDHUMATHI G	Chair person	
2	MR.CHANDRA SEKARA, AP/ EEE	HOD	
3	MR. KARTHIK P	Member	
4	MR. MANIKANDAN K	Member	
5	MS.ALAMELUMANGAI G	Member	
6	DHARANEESHKUMAR R	Student Representative	
7	GAYATHRI M	Student Representative	

Copy to:

- 1.Circulate among staff members.
- 2.Class advisor File.
- 3.Third –year Students.


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CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2022-23 –EVEN SEM

Date :30.03.2021

Minutes of meeting

The second class committee meeting for VI Semester EEE was held on 30.03.2021 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION
1	MS. INDHUMATHI G	Chair person
2	MR.CHANDRA SEKARA, AP/ EEE	HOD
3	MR. KARTHIK P	Member
4	MR. MANIKANDAN K	Member
5	MS.ALAMELUMANGAI G	Member
6	DHARANEESHKUMAR R	Student Representative
7	GAYATHRI M	Student Representative

S.NO	Points discussed	Action taken
1	The Students were advised again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
2	HOD instructed the Students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve the skills through an internship and in -plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advised to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.


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6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various events conducted by the other institution on the notice board. And encourage the students to participate.

COPY:

- 1.Circulate among staff members.
- 2.Class advisor File.

HOD



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CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2022-23 –EVEN SEM

Date : 29.03.2021

CIRCULAR

The second class committee meeting for IV semester EEE is to be held in the HOD cabin on 30.03.2021 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.

S.NO	NAME	DESIGNATION	SIGN
1	MS.ALAMELUMANGAI G	Chair person	
2	MR.CHANDRA SEKARA, AP/ EEE	HOD	
3	MR. KARTHIK P	Member	
4	MR. MANIKANDAN K	Member	
5	MS. INDHUMATHI G	Member	
6	KRISHNARAJ R	Student Representative	
7	LASARVIJAY B	Student Representative	

Copy to:

1. Circulate among staff members.
2. Class advisor File.
3. second - year students

HOD

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CLASS COMMITTEE MEETING

REF : AREC / EEE/01 /2022-23 –EVEN SEM

Date :30.03.2021

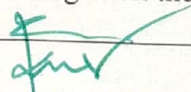
Minutes of meeting

The second class committee meeting for IV Semester EEE was held on 30.03.2021 at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION
1	MS.ALAMELUMANGAI G	Chair person
2	MR.CHANDRA SEKARA, AP/ EEE	HOD
3	MR. KARTHIK P	Member
4	MR. MANIKANDAN K	Member
5	MS. INDHUMATHI G	Member
6	KRISHNARAJ R	Student Representative
7	LASARVIJAY B	Student Representative

S.NO	Points discussed	Action taken
1	The Students were advised again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
2	HOD instructed the Students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve the skills through an internship and in –plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advised to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.
6	HOD instructed the students to complete their observation and turn in their record	The lab in charge verifies the observation and records and got the sing from the Head of the Department.

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	work by the deadline specified by the particular lab in charge.	
7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various events conducted by the other institution on the notice board. And encourage the students to participate.

Copy

1. Circulate among staff members.
2. Class advisor File.

HOD



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B.E./B.TECH. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Sixth Semester

Electrical and Electronics Engineering

EE6601 – SOLID STATE DRIVES

(Regulations 2013)

(Common to PTEE 6601 – Solid State Drives for B.E. (Part-time)

Fifth Semester – Electrical and Electronics Engineering – Regulations – 2014)

Time : Three Hours

Maximum : 100 Marks

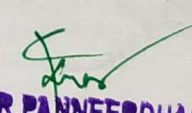
Answer ALL questions

PART – A

(10×2=20 Marks)

1. Write down the fundamental torque equation of motor-load system with constant inertia.
2. What are the components of load torque ?
3. What are the assumptions made for the purpose of steady state performance analysis of converter fed dc motor drives ?
4. Write down the control strategies of chopper.
5. What are the drawbacks of stator voltage control of induction motor drives ?
6. What is meant by field weakening mode in induction motor ?
7. What is the need of delay circuit in open loop v/f control of synchronous motor drives ?
8. Write down the disadvantage of self control techniques.
9. Define mechanical time constant.
10. Write down the transfer function of speed feedback filter used in dc drive system.




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KAPPIYAMPULIYUR P.O.,
VILLUPURAM DISTRICT

PART – C

(1×15=15 Marks)

16. a) A 220 V, 875 rpm, 150 A separately excited dc motor has an armature resistance of 0.06Ω . It is fed from a single phase fully controlled rectifier with an ac source voltage of 220 V, 50 Hz. If armature circuit resistance of motor is 0.85 mH , calculate motor torque for $\alpha = 60^\circ$ and speed = 400 rpm. (15)

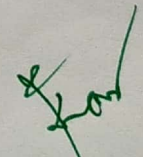
(OR)

- b) A synchronous motor is controlled by a load commutated inverter, which in turn is fed from a line commutated converter. Source voltage is 6.6 kV, 50 Hz. Load commutated inverter operates at a constant firing angle of 140° and when rectifying $\alpha = 0^\circ$, dc link inductor resistance $R_d = 0.1 \Omega$. Drive operates in self control mode with a constant (v/f) ratio. Motor has the details : 8 MW, 3 phase, 6600 V, 6 pole, 50 Hz, unity power factor, star connected, $X_s = 2.8 \Omega$, $R_s = 0 \Omega$. Determine source side converter firing angles for :

- i) Motor operation at the rated current and 500 rpm. What will be the power developed by the motor ?

- ii) Regenerative braking operation at 500 rpm and rated motor current. Also calculate power supplied to the source. (15)




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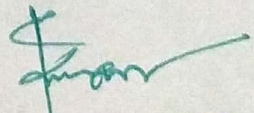


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ACADEMIC YEAR 2021 – 2022




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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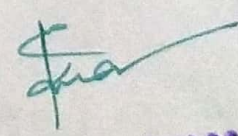
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ODD SEMESTER 2021-2022

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1	Anna university Academic Schedule
2	Academic Calendar
3	Internal Assessment Schedule



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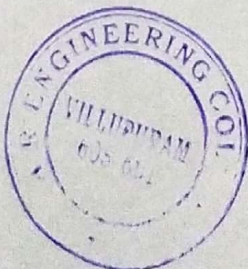

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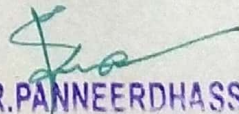


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Anna University Academic Schedule




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 27.07.2021

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

August 2021 - December 2021 (ODD SEMESTER)*

UG & PG Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E / B.Tech (Full-Time)	III, V, VII	18.08.2021	30.11.2021**	02.12.2021	13.12.2021
2.	B.E / B.Tech (Part-Time)	III, V, VII				
3.	B.Arch. (Full-Time)	III, V, VII, IX				
4.	M.C.A. (Full-Time)	V				
5.	M.Sc (5 Yrs-Integrated)	V, VII, IX				
6.	M.B.A. (5 Yrs-Integrated)	V, VII, IX				

* As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode

RE - OPENING DAY FOR THE NEXT SEMESTER: 19.01.2022 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays

** In order to ensure minimum no. of working days, the following 7 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	28.08.2021	Friday	5.	23.10.2021	Friday
2.	11.09.2021	Monday	6.	06.11.2021	Tuesday
3.	25.09.2021	Friday	7.	20.11.2021	Thursday
4.	09.10.2021	Thursday			

**DIRECTOR
ACADEMIC COURSES**

DAC - SR



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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 25.10.2021



CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

November 2021 - March 2022 (SEMESTER I)

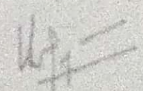
UG (FT) Degree Programmes

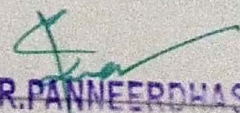
Sl. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (Full Time)	I	08.11.2021	22.11.2021	08.03.2022	10.03.2022	21.03.2022

RE-OPENING DAY FOR THE NEXT SEMESTER: 18.04.2022 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.


DIRECTOR
ACADEMIC COURSES


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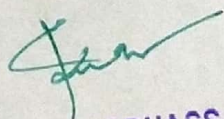


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ACADEMIC CALENDAR 2021 - 2022




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VILLUPURAM-605 601.

ACADEMIC CALENDAR : [Odd Semester AUG 2021– DEC 2021]

*Total no.of working hours /Day: 08

DATE	DAY	MONTH/AUGUST 2021	NO OF WORKING DAYS
1	SUN	HOLIDAY	
2	MON		
3	TUE		
4	WED		
5	THU		
6	FRI		
7	SAT		
8	SUN	HOLIDAY	
9	MON		
10	TUE		
11	WED		
12	THU		
13	FRI		
14	SAT		
15	SUN	Independence Day Celebration	
16	MON		
17	TUE		
18	WED	Commencement of Classes for II,III,IV Year	1
19	THU		2
20	FRI	Moharam - HOLIDAY	
21	SAT		3
22	SUN	HOLIDAY	
23	MON		
24	TUE		4
25	WED		5
26	THU		6
27	FRI		7
28	SAT		8
29	SUN	HOLIDAY	
30	MON	Sri Krishna Jayanthi - HOLIDAY	
31	TUE		9



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DATE	DAY	MONTH:SEPTEMBER 2021	NO OF WORKING DAYS
1	WED		10
2	THUR		11
3	FRI		12
4	SAT		
5	SUN	Teacher's Day	
6	MON		13
7	TUE		14
8	WED		15
9	THU	Corona Vaccination Camp - NSS	16
10	FRI	Vinayagar Chaturthi - HOLIDAY	
11	SAT		
12	SUN	HOLIDAY	
13	MON		17
14	TUE		18
15	WED	Engineer's Day	19
16	THU		20
17	FRI		21
18	SAT		22
19	SUN	HOLIDAY	
20	MON		23
21	TUE		24
22	WED		25
23	THU		26
24	FRI		27
25	SAT		28
26	SUN	HOLIDAY	
27	MON		29
28	TUE		30
29	WED		31
30	THU		32

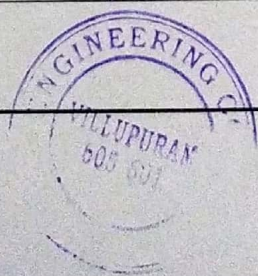
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[Signature]
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 KAPPIYAMPULIYUR POST,
 VILLUPURAM-605 601.

DATE	DAY	MONTH:OCTOBER 2021	NO OF WORKING DAYS
1	FRI	INTRNAL ASSESMENT-I STARTS (II,III,IV YEAR)	33
2	SAT	Gandhi Jayanti – HOLIDAY	
3	SUN	HOLIDAY	
4	MON	INTERNAL ASSESMENT I	34
5	TUE	INTERNAL ASSESMENT I	35
6	WED	INTERNAL ASSESMENT I	36
7	THU	INTERNAL ASSESMENT I	37
8	FRI	INTERNAL ASSESMENT-I ENDS (II,III,IV YEAR)	38
9	SAT	HOLIDAY	
10	SUN	HOLIDAY	
11	MON		39
12	TUE		40
13	WED		41
14	THU	Ayudha Pooja -HOLIDAY	
15	FRI	Vijaya Dashami-HOLIDAY	
16	SAT		
17	SUN	HOLIDAY	
18	MON		42
19	TUE		43
20	WED		44
21	THU		45
22	FRI		46
23	SAT		
24	SUN		
25	MON		47
26	TUE		48
27	WED	INTRNAL ASSESMENT- II STARTS (II,III,IV YEAR)	49
28	THU	INTERNAL ASSESMENT II	50
29	FRI	INTERNAL ASSESMENT II	51
30	SAT	HOLIDAY	
31	SUN	HOLIDAY	

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VILLUPURAM-605 601.

DATE	DAY	MONTH: NOVEMBER 2021	NO OF WORKING DAYS
1	MON	INTERNAL ASSESMENT II	52
2	TUE	INTERNAL ASSESMENT II	53
3	WED	INTERNAL ASSESMENT-II ENDS (II,III,IV YEAR)	54
4	THU	Diwali HOLIDAY	
5	FRI	HOLIDAY	
6	SAT	HOLIDAY	
7	SUN	HOLIDAY	
8	MON	Commencement of classes for Induction programme - I Year	55
9	TUE		56
10	WED		57
11	THU		58
12	FRI		59
13	SAT		60
14	SUN	HOLIDAY	
15	MON		61
16	TUE		62
17	WED		63
18	THU		64
19	FRI		65
20	SAT	MODEL EXAM STARTS (II,III,IV YEAR)	66
21	SUN	HOLIDAY	
22	MON	Commencement of Classes for I - Year [Marked in the bracket] MODEL EXAM	67(1)
23	TUE	MODEL EXAM	68(2)
24	WED	MODEL EXAM	69(3)
25	THU	MODEL EXAM	70(4)
26	FRI	MODEL EXAM Ends (II,III,IV YEAR)	71(5)
27	SAT	HOLIDAY	
28	SUN	HOLIDAY	
29	MON		72(6)
30	TUE	Last Working Day for II,III,IV Year	73(7)

DATE	DAY	MONTH:DECEMBER 2021	NO OF WORKING DAYS
1	WED		(8)
2	THUR	Commencement Of Practical Examinations For II, III,IV Year	(9)
3	FRI		(10)
4	SAT	HOLIDAY	
5	SUN	HOLIDAY	
6	MON		(11)
7	TUE		(12)
8	WED		(13)
9	THU		(14)
10	FRI		(15)
11	SAT	HOLIDAY	
12	SUN	HOLIDAY	
13	MON	Commencement of AU Semester Examinations for II , III, IV Year	(16)
14	TUE		(17)
15	WED		(18)
16	THU		(19)
17	FRI		(20)
18	SAT	HOLIDAY	
19	SUN	HOLIDAY	
20	MON	INTERNAL ASSESMENT - I Starts (First Year)	(21)
21	TUE	INTERNAL ASSESMENT-I	(22)
22	WED	INTERNAL ASSESMENT-I	(23)
23	THU	INTERNAL ASSESMENT-I	(24)
24	FRI	INTERNAL ASSESMENT-I End (First year)	(25)
25	SAT	CHRISTMAS DAY - HOLIDAY	
26	SUN	HOLIDAY	
27	MON		(26)
28	TUE		(27)
29	WED		(28)
30	THUR		(29)
31	FRI		(30)

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ACADEMIC CALENDAR : [Even Semester : MARCH 2022- JULY 2022]

DATE	DAY	MONTH:JANUARY 2022	NO OF WORKING DAYS
1	SAT	NEW YEAR - HOLIDAY	
2	SUN	HOLIDAY	
3	MON		(31)
4	TUE		(32)
5	WED		(33)
6	THU		(34)
7	FRI		(35)
8	SAT		(36)
9	SUN	HOLIDAY	
10	MON		(37)
11	TUE		(38)
12	WED		(39)
13	THU		(40)
14	FRI	PONGAL HOLIDAY	
15	SAT	THIRUVALLUVAR DAY HOLIDAY	
16	SUN	UZHAVAR THIRUNAL HOLIDAY	
17	MON		
18	TUE		(41)
19	WED	Sports-Badminton[Boys, Girls]	(42)
20	THU	Sports-Throw Ball[Boys, Girls]	(43)
21	FRI	Sports-Cricket[Boys]	(44)
22	SAT	Sports- Kabaddi [Boys & Girls]]	(45)
23	SUN	HOLIDAY	(46)
24	MON		
25	TUE		
26	WED	Republic Day -Celebration	(47)
27	THU	Sports-Volley Ball[Boys, Girls]	(48)
28	FRI	THAI POOSAM - LOCAL HOLIDAY	(49)
29	SAT		
30	SUN	HOLIDAY	
31	MON		(50)



Dr. R. PANNEERDHASS, M.E., Ph.D.,
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A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

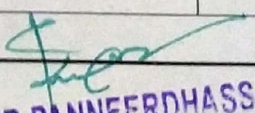
DATE	DAY	MONTH: FEBRUARY 2022	NO OF WORKING DAYS
1	TUE		(51)
2	WED		(52)
3	THU		(53)
4	FRI		(54)
5	SAT	HOLIDAY	
6	SUN	HOLIDAY	
7	MON	INTERNAL ASSESMENT - II Starts (First Year)	(55)
8	TUE	INTERNAL ASSESMENT-II	(56)
9	WED	INTERNAL ASSESMENT-II	(57)
10	THU	INTERNAL ASSESMENT-II	(58)
11	FRI	INTERNAL ASSESMENT-II Ends (First year)	(59)
12	SAT	HOLIDAY	
13	SUN	HOLIDAY	
14	MON		(60)
15	TUE		(61)
16	WED		(62)
17	THU	SPORTS DAY & ANNUAL DAY CELEBRATION	(63)
18	FRI	Career Guidance programme	(64)
19	SAT	HOLIDAY	
20	SUN	HOLIDAY	
21	MON		(65)
22	TUE		(66)
23	WED	MODEL EXAM START (I YEAR)	(67)
24	THU	MODEL EXAM	(68)
25	FRI	MODEL EXAM	(69)
26	SAT	HOLIDAY	
27	SUN	HOLIDAY	
28	MON	MODEL EXAM	(70)



[Signature]
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 KAPPIYAMPULIYUR POST,
 VILLUPURAM-605 601.

DATE	DAY	MONTH: MARCH 2022	NO OF WORKING DAYS
1	TUE	MODEL EXAM END - I YEAR	(71)
2	WED		(72)
3	THU		(73)
4	FRI		(74)
5	SAT		
6	SUN	HOLIDAY	
7	MON		(75)
8	TUE	LAST WORKING DAY FOR I - YEAR Womens Day	(76)
9	WED		
10	THU	Commencement of Practical Examinations for I Year	
11	FRI		
12	SAT		
13	SUN	HOLIDAY	
14	MON		
15	TUE		
16	WED		
17	THU		
18	FRI		
19	SAT		
20	SUN	HOLIDAY	
21	MON	Commencement of AU Semester Examinations for I - Year	
22	TUE		
23	WED		
24	THU		
25	FRI		
26	SAT		
27	SUN	HOLIDAY	
28	MON		
29	TUE		
30	WED		
31	THU		




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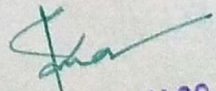


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INTERNAL ASSESSMENT SCHEDULE ODD SEMESTER 2021- 22




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ANNA UNIVERSITY:: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

August - December 2021 - For all UG/PG - Programmes (ODD SEMESTER) - Except M.C.A 2 Years

Report No	Report Period	Test Period	Report Entry Period
I	10-08-2021 - 13-09-2021	---	13-09-2021 - 18-09-2021
II	14-09-2021 - 07-10-2021	01-10-2021 - 07-10-2021	07-10-2021 - 13-10-2021
III	08-10-2021 - 05-11-2021	29-10-2021 - 05-11-2021	05-11-2021 - 11-11-2021
IV	06-11-2021 - 30-11-2021	23-11-2021 - 30-11-2021	30-11-2021 - 02-12-2021

Saturdays may be included as working days to make good the Shortages, if any.

CONTROLLER OF EXAMINATIONS



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ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

Period : November 2021 – March 2022 (ODD Semester – First Semester) Examinations

B.E./B.Tech – Full Time / Part Time Programmes (R-2021)

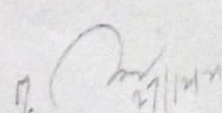
Report No	Report Period	Test Period	Report Entry Period
I	22-11-2021 – 12-01-2022	03-01-2022 – 12-01-2022	12-01-2022 – 21-01-2022
II	13-01-2022 – 08-03-2022	25-02-2022 – 08-03-2022	08-03-2022 – 09-03-2022

Period : November 2021 – March 2022 (ODD Semester – First Semester) Examinations

B.Arch – Programme (R-2021)

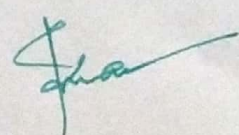
Report No	Report Period	Test Period	Report Entry Period
I	29-11-2021 – 31-12-2021	21-12-2021 – 31-12-2021	31-12-2021 – 10-01-2022
II	03-01-2022 – 09-02-2022	31-01-2022 – 09-02-2022	09-02-2022 – 18-02-2022
III	10-02-2022 – 15-03-2022	07-03-2022 – 15-03-2022	15-03-2022 – 16-03-2022

Saturdays may be included as working days to make good the Shortages, if any.


CONTROLLER OF EXAMINATIONS

2/ Page




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KAPPIYAMPULIYUR POST,
VILLUPURAM 605 601.

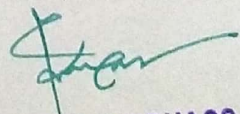


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ACADEMIC CALENDAR EVEM SEMESTER 2021 - 2022




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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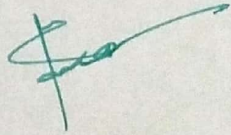
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INDEX

EVEN SEMESTER 2021 – 2022

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1	Anna University Academic Schedule
2	Academic Calendar
3	Internal Assessment Schedule




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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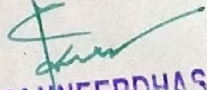
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Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

ANNA UNIVERSITY ACADEMIC SCHEDULE




Dr. R. PANNEERDHAS, M.E., Ph.D.,
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VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Date: 04.03.2022

REVISED

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

March 2022 - June 2022 (Even Semester - Except Semester II)

UG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech (Full-Time)	IV, VI, VIII	15.03.2022	16.06.2022**	18.06.2022	28.06.2022
2.	B.E. / B.Tech (Part-Time)	IV, VI				
3.	B Arch. (Full-Time)	IV, VI, VIII, X				

RE - OPENING DAY FOR THE NEXT SEMESTER: 10.08.2022 (Wednesday)

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
- If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	19.03.2022	Tuesday
2.	26.03.2022	Wednesday
3.	09.04.2022	Thursday
4.	23.04.2022	Friday
5.	30.04.2022	Tuesday
6.	07.05.2022	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	14.05.2022	Tuesday
8.	21.05.2022	Wednesday
9.	28.05.2022	Thursday
10.	04.06.2022	Friday
11.	11.06.2022	Monday

DIRECTOR
ACADEMIC COURSES

040-98



Dr. R. PANNEERDHASS, M.E., Ph.D.,
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Date: 21.03.2022

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

April 2022 - July 2022 (Semester II)

UG (FT/PT) & PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E / B.Tech.(Full-Time)	II	04.04.2022	04.07.2022**	06.07.2022	18.07.2022
2.	B.Arch. (Full-Time)	II				
3.	B.E / B.Tech (Part-Time)	II				
4.	M.B.A. (Full-Time & Part-Time)	II				
5.	M.B.A. (5 Yrs-Integrated)	II				

RE - OPENING DAY FOR THE NEXT SEMESTER: 22.08.2022 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
 2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.
- ** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	09.04.2022	Thursday
2.	23.04.2022	Friday
3.	30.04.2022	Tuesday
4.	07.05.2022	Monday
5.	14.05.2022	Tuesday
6.	21.05.2022	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	28.05.2022	Thursday
8.	04.06.2022	Friday
9.	11.06.2022	Monday
10.	18.06.2022	Tuesday
11.	25.06.2022	Wednesday
12.	02.07.2022	Thursday

[Signature]
DIRECTOR i/c
ACADEMIC COURSES

GAC - 98



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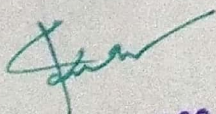


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ACADEMIC CALENDAR 2021 - 2022



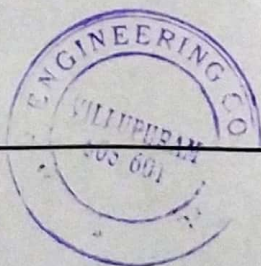

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DATE	DAY	MONTH:MARCH 2022	NO OF WORKING DAYS
1	TUE	MODEL EXAM END I YEAR	(71)
2	WED		(72)
3	THU		(73)
4	FRI		(74)
5	SAT	HOLIDAY	
6	SUN	HOLIDAY	
7	MON	Commencement of Classes for II ,III, IV Year	1(75)
8	TUE	LAST WORKING DAY - (I YEAR)	2(76)
9	WED		3
10	THU	Commencement of Practical Examinations for I - Year	4
11	FRI		5
12	SAT		6
13	SUN	HOLIDAY	
14	MON		7
15	TUE		8
16	WED		9
17	THU		10
18	FRI	PROJECT REVIEW(IV YEAR)	11
19	SAT		12
20	SUN	HOLIDAY	
21	MON	Commencement of AU Semester Examinations for I - Year	13
22	TUE		14
23	WED		15
24	THU		16
25	FRI		17
26	SAT		18
27	SUN	HOLIDAY	
28	MON		19
29	TUE		20
30	WED		21
31	THU		22



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DATE	DAY	MONTH: APRIL 2022	NO OF WORKING DAYS
1	FRI	Telugu New Year - HOLIDAY	23
2	SAT	PROJECT REVIEW (IV YEAR)	24
3	SUN	HOLIDAY	
4	MON	Commencement of Classes for I - Year [Marked in the bracket] INTERNAL ASSESMENT - I Starts(II, III, IV YEAR)	25 (1)
5	TUE	INTERNAL ASSESMENT-I END (IV YEAR)	26 (2)
6	WED	INTERNAL ASSESMENT-I	27 (3)
7	THU	INTERNAL ASSESMENT-I	28 (4)
8	FRI	INTERNAL ASSESMENT-I	29 (5)
9	SAT	INTERNAL ASSESMENT-I	30(6)
10	SUN	HOLIDAY	
11	MON	INTERNAL ASSESMENT-I End (II, III year)	31(7)
12	TUE		32(8)
13	WED		33(9)
14	THU	Tamil New Year-HOLIDAY	
15	FRI	Good Friday- HOLIDAY	
16	SAT	HOLIDAY	
17	SUN	HOLIDAY	
18	MON		34(10)
19	TUE		35(11)
20	WED		36(12)
21	THU		37(13)
22	FRI		38(14)
23	SAT		39(15)
24	SUN	HOLIDAY	
25	MON		40(16)
26	TUE		41(17)
27	WED		42(18)
28	THU		43(19)
29	FRI	PROJECT REVIEW (IV YEAR)	44(20)
30	SAT		45(21)



[Signature]
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DATE	DAY	MONTH:MAY 2022	NO OF WORKING DAYS
1	SUN	HOLIDAY	
2	MON	INTERNAL ASSESEMENT-I START(I YEAR) INTERNAL ASSESMENT – II Starts(II, III,IV YEAR)	46(22)
3	TUE	RAMZAN - HOLIDAY	
4	WED	INTERNAL ASSESEMENT-I INTERNAL ASSESMENT-II END (IV YEAR)	47(23)
5	THU	INTERNAL ASSESEMENT-I INTERNAL ASSESMENT-II	48(24)
6	FRI	INTERNAL ASSESEMENT-I INTERNAL ASSESMENT-II	49(25)
7	SAT	INTERNAL ASSESEMENT-I INTERNAL ASSESMENT-II	50(26)
8	SUN	HOLIDAY	
9	MON	INTERNAL ASSESEMENT-I INTERNAL ASSESMENT-II (I,II,III END)	51(27)
10	TUE		52(28)
11	WED		53(29)
12	THU		54(30)
13	FRI		55(31)
14	SAT	HOLIDAY	
15	SUN	HOLIDAY	
16	MON		56(32)
17	TUE		57(33)
18	WED		58(34)
19	THU		59(35)
20	FRI		60(36)
21	SAT		61(37)
22	SUN	HOLIDAY	
23	MON		62(38)
24	TUE		63(39)
25	WED		64(40)
26	THU		65(41)
27	FRI	PROJECT REVIEW (IV YEAR)	66(42)
28	SAT		67(43)
29	SUN	HOLIDAY	
30	MON		68(44)
31	TUE		69(45)



[Signature]
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DATE	DAY	MONTH: JUNE 2022	NO OF WORKING DAYS
1	WED	MODEL EXAM START (II,III,IV YEAR)	71(46)
2	THUR	MODEL EXAM END (IV YEAR)	72(47)
3	FRI	MODEL EXAM	73(48)
4	SAT	MODEL EXAM	74(49)
5	SUN	HOLIDAY	
6	MON	INTERNAL ASSESEMENT-II START- I YEAR MODEL EXAM	75(50)
7	TUE	INTERNAL ASSESMENT-II MODEL EXAM END II,III YEAR	76(51)
8	WED	INTERNAL ASSESMENT-II	77(52)
9	THU	INTERNAL ASSESMENT-I	78(53)
10	FRI	INTERNAL ASSESMENT-II	79(54)
11	SAT	INTERNAL ASSESMENT-II End I YEAR Last Working Day for II,III,IV Year	80(55)
12	SUN	HOLIDAY	
13	MON	Commencement of Practical Examinations for II, III, IV Year	(56)
14	TUE		(57)
15	WED	PROJECT REVIEW (IV YEAR) AU REVIEW	(58)
16	THU		(59)
17	FRI		(60)
18	SAT		(61)
19	SUN	HOLIDAY	
20	MON		(62)
21	TUE	Yoga Day	(63)
22	WED	Commencement of AU semester Examinations for II,III,IV Year	(64)
23	THU		(65)
24	FRI		(66)
25	SAT		(67)
26	SUN	HOLIDAY	
27	MON	MODEL EXAM (I YEAR)	(68)
28	TUE	MODEL EXAM	(69)
29	WED	MODEL EXAM	(70)
30	THU	MODEL EXAM	(71)



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VILLUPURAM-605 601.

DATE	DAY	MONTH:JULY 2022	NO OF WORKING DAYS
1	FRI	MODEL EXAM	(72)
2	SAT	MODEL EXAM (END I YEAR)	(73)
3	SUN	HOLIDAY	
4	MON	Last working day for I – Year	(74)
5	TUE		
6	WED	Commencement of Practical Examination for I - Year	
7	THU		
8	FRI		
9	SAT	HOLIDAY	
10	SUN	HOLIDAY	
11	MON		
12	TUE		
13	WED		
14	THU		
15	FRI		
16	SAT		
17	SUN	HOLIDAY	
18	MON	Commencement of AU Semester Examination for I - Year	
19	TUE		
20	WED		
21	THU		
22	FRI		
23	SAT		
24	SUN	HOLIDAY	
25	MON		
26	TUE		
27	WED		
28	THU		
29	FRI		
30	SAT		
31	SUN	HOLIDAY	



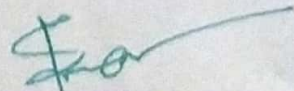
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INTERNAL ASSESSMENT SCHEDULE EVEN SEMESTER 2021- 22




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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VILLUPURAM-605 601.

ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

MARCH - JUNE 2022 - For all UG - Programmes (Even Semester - Except Semester II)

Report No	Report Period	Test Period	Report Entry Period
I	16-03-2022 - 01-04-2022	---	21-04-2022 - 25-04-2022
II	04-04-2022 - 29-04-2022	25-04-2022 - 29-04-2022	29-04-2022 - 04-05-2022
III	30-04-2022 - 24-05-2022	19-05-2022 - 24-05-2022	24-05-2022 - 28-05-2022
IV	25-05-2022 - 16-06-2022	11-06-2022 - 16-06-2022	16-06-2022 - 17-06-2022

Saturdays may be included as working days to make good the Shortages, if any.

17. 20.04.2022
CONTROLLER OF EXAMINATIONS



Dr. R. PANNEERDHASS, M.E., Ph.D.,
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ANNA UNIVERSITY:: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

April 2022 – July 2022 - (SEMESTER - II)

B.E./B.TECH.(FT/PT) Degree Programmes & M.B.A. (FT/PT/5 Yrs - Integrated) Degree Programmes

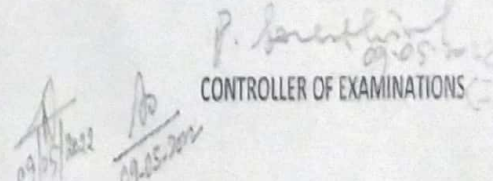
Report No	Report Period	Test Period
I	04-04-2022 – 21-05-2022	16-05-2022 – 21-05-2022
II	23-05-2022 – 04-07-2022	28-06-2022 – 04-07-2022

April 2022 – July 2022 - (SEMESTER - II)

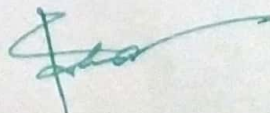
B.ARCH.(FT) Degree Programme

Report No	Report Period	Test Period
I	04-04-2022 – 06-05-2022	29-04-2022 – 06-05-2022
II	07-05-2022 – 04-06-2022	30-05-2022 – 04-06-2022
III	06-06-2022 – 04-07-2022	28-06-2022 – 04-07-2022

Saturdays may be included as working days to make good the Shortages, if any.


CONTROLLER OF EXAMINATIONS




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

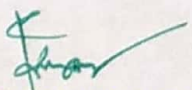


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SUBJECT ALLOCATION




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR (ODD SEM)

(2021 -2022)

CIR.NO : AREC/ECE/CIR/01

Date:02.08.2021

It is to inform that subject allocation meeting for the forth coming semester AUG - DEC 2021 will be held on 04.08.2021 at 11.10 AM in the Department of ECE. All the faculty members are requested to attend the meeting without fail. The list of available subjects for the semester and the subject preferences form are enclosed with this circular. All the staff members are requested to fill up the preferences form enclosed.

J. Ravi

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SUBJECT PREFERENCES FORM - (ODD SEM) AUG - DEC - 2021

PERIOD: AUG 2021 - DEC 2021

S. N O	STAFF NAME	THEORY 1		THEORY 2		PRACTICAL		SIGN
		OPT- 1	OPT-2	OPT-1	OPT-2	OPT- 1	OPT-2	
1	DR.V.MURUGAN	EC335A				EC8712		<u>Y. Murugan</u>
2	MS. SAVITHA N	EC8551				EC8563		<u>MS. SAVITHA N</u>
3	MRS. LAKSHMIDEVI P	EC8501				EC8561		<u>Label</u>
4	MR. SARAVANAN P	EC3352				EC3361		<u>Sarav</u>
5	MS. DEEPALAKSHMI A	EC8071		EC8702				<u>Deepa</u>
6	MS. KOKILA V	EC8751		EC8791		EC8711		<u>Kokila</u>
7	MR. RAMESH P	EC8701				EC8712		<u>Ramb</u>
8	MS. SUGUNADEVI R	OBM752		EC3354				<u>Suguna</u>

Note : Kindly enter only the subject code of your preferred subject.



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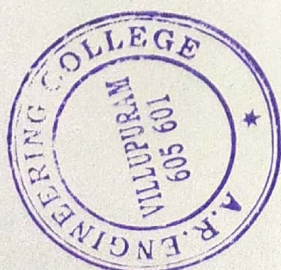
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SUBJECT DETAILS ODD SEMESTER 2021-2022

YEAR / SEM	REG	THEORY / LABORATORY	Subject Code	Subject Name
IV/VIII	2017	THEORY	EC8702	ADHOC AND WIRELESS SENSOR NETWORKS
		THEORY	EC8751	OPTICAL COMMUNICATION
		THEORY	EC8701	ANTENNA & MICROWAVE ENGG
		THEORY	EC8791	EMBEDDED & REAL TIME SYSTEMS
		THEORY	OBM752	HOSPITAL MANAGEMENT
		THEORY	EC8071	COGNITIVE RADIO
		LAB	EC8761	ADVANCE COMMUNICATION LAB
		LAB	EC8711	EMBEDDED LAB
III/VI	2017	THEORY	EC8551	COMMUNICATION NETWORK
		THEORY	EC8553	DISCRETE TIME SIGNAL PROCESSING
		THEORY	EC8552	COMPUTER ARCHITECTURE & ORGANISATION
		THEORY	OCE551	AIR POLLUTION & CONTROL ENGG
		THEORY	EC8501	DIGITAL COMMUNICATION
		THEORY	GE8074	HUMAN RIGHTS
		LAB	EC8562	DISCRETE TIME SIGNAL PROCESSING LAB
		LAB	EC8563	COMMUNICATION NETWORK LAB
		LAB	EC8561	COMMUNICATION SYSTEM LAB
II/IV	2017	THEORY	EC3354	SIGNALS AND SYSTEM
		THEORY	EC3352	DIGITAL SYSTEM DESIGN
		THEORY	EC3353	ELECTRONIC DEVICES CIRCUITS
		THEORY	MA3355	RANDOM PROCESS AND LINEAR ALGEBRA
		THEORY	CS3351	DATA STRUCTURE
		THEORY	EC3351	CONTROL SYSTEM
		LAB	EC3361	ELECTRONIC DEVICES AND CIRCUITS LAB
		LAB	CS3361	DATA STRUCTURE LAB

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VADAKUCHIPALAYAM



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SUBJECT ALLOCATION FOR OTHER DEPARTMENT STAFF (ODD SEM-2021-2022)

S.NO	STAFF NAME	SUBJECT CODE /NAME	PRACTICAL
1	Mr.P.SARAVANAN	EC3353/ELECTRONICS DEVICES AND CIRCUITS(EGE-II)	EC3361/ELECTRONICS DEVICES AND CIRCUITS LAB(EGE-II)
2	Ms.A.DEEPALAKSHMI	EC8071/COGNITIVE RADIO(EGEIV) EC8702/ADHOC AND WIRELESS SENSOR NETWORKS(EGEIV)	NO LAB
3	Ms.N.SAVITHA	EC8551/COMMUNICATION NETWORKS(EGE-III)	EC8563/COMMUNICATION NETWORKS LAB(EGE-III)
4	Mr.P.M.BHARATH	EC3352/DIGITAL SYSTEM DESIGN(EGE-II)	EC8562/DIGITAL SIGNAL PROCESSING LAB(EGE-III)
5	Ms.V.KOKILA	EC8751/OPTICAL COMMUNICATION(EGEIV) EC8791/EMBEDDED & REAL TIME SYSTEMS(EGEIV)	EC8711/EMBEDDED SYSTEMS LAB(EGE-IV)
6	Mr.P.RAMESH	EC8701/ANTENNA&MICROWAVE ENGINEERING(EGEIV)	EC8712/ADVANCED COMMUNICATION SYSTEMS LAB(EGE-IV)
7	Ms.R.SUGUNADEVI	OBMT52/HOSPITAL MANAGEMENT(EGEIV) EC3354/SIGNALS AND SYSTEMS(EGE-II)	NO LAB
8	Ms.P.LAKSHMIDEVI	EC8501/DIGITAL COMMUNICATION(EGE-III)	EC8561/COMMUNICATION SYSTEMS LAB (EGE-III)
9	Ms.A.SUGANYA	EC8553/DISCRETE TIME SIGNAL PROCESSING(EGE-III)	EC8562/DISCRETE TIME SIGNAL PROCESSING LAB(EGE-III)

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A.R. ENGINEERING COLLEGE
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SUBJECT ALLOCATION FOR OTHER DEPARTMENT STAFF (ODD SEM-2021-2022)

S.NO	STAFF NAME	SUBJECT NAME/DEPT/YEAR	PRACTICAL/DEPT/YEAR
1	Ms.R. CHANDRA PRABHA	MA3355/RANDOM PROCESSES AND LINEAR ALGEBRA(EGE-II)	NO LAB
2	Ms. V.DHANALAKSHMI	CS3351/ DATA STRUCTURES(EGE-II)	CS3361/ DATA STRUCTURE LAB(EGE-II)
3	Mr.R.SIVAKUMAR	GE8074/HUMAN RIGHTS(EGE-III)	NO LAB
4	Ms.P.ENBARASI	EC8552/COMPUTER ARCHITECTURE AND ORGANIZATION(EGE-III)	NO LAB
5	Ms.K.KAVITHA	OC8551/AIR POLLUTION AND CONTROL ENGINEERING	NO LAB
6	Ms.Dr.V.GIRIJA	NO SUBJECT	GE3361/PROFESSIONAL DEVELOPMENT(EGE-II)
	Ms.M.PRABEENA	EC3351/CONTROL SYSTEM (EGE-II)	NO LAB

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D. R. PANNIEERMASS, M.E., Ph.D.

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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.





A.R. ENGINEERING COLLEGE, VILLUPURAM
Department of Electronics and Communication Engineering

Master Time Table for Odd Semester (2021-2022)

PERIOD	YEAR	1	2	3	4	5	6	7	8
Day/Time		9.30-10.20	10.20-11.10	11.25-12.15	12.15-1.00	1.35-2.20	2.20-3.05	3.15-4.00	4.00-4.45
Monday	II	DS		SS	EDC	CS	EDC LAB	EDC LAB	
	III	DTSP		DC	HM	DTSP	CN	APSE	
	IV	AWSN		CR		AME	HM	ERTS	OC
	II	DSD		CS		EDC	SS	RPLA	LIB
Tuesday	III	HR		CAO	DC	APCE	CS LAB	CS LAB	
	IV	AME		AWSN	OC	CR	ACS LAB	OC	
	II	EDC		DS	SS	DSD	DS LAB	DS LAB	
	III	DC		CAO	APCE	CN	DSP LAB	DSP LAB	
Wednesday	IV	OC		HM	CR	AME	ES LAB	ES LAB	
	II	CS		RPLA		DSD	EDC	PD LAB	
	III	CAO		APCE	CN	HR		PET	
	IV	CR		AME	AWSN	OC	ERTS	PET	
Thursday	II	RPLA		SS	DSD	SS	DS	PET	
	III	CN		CN	DTSP	DC	CAO	HR	LIB
	IV	ERTS		OC	HM	AWSN		AME	LIB
	II	SS		DS	DSD	RPLA		DS	EDC
Friday	III	APCE		CN	DTSP	DTSP	CN LAB	CN LAB	
	IV	HM		ERTS	CR	OC	AWSN	ERTS	AME
Saturday	II								
	III								
	IV								
	II								

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A.R ENGINEERING COLLEGE, VILLUPURAM
DEPARTMENT OF ECE
TIME TABLE FOR ODD SEMESTER (2021-2022)
II ECE - (III SEMESTER)
CLASS INCHARGE: Mr.P.M.BHARATH,AP/ECE

DAY	1 9.30-10.20	2 10.20-11.10	3 11.25-12.15	4 12.15-1.05	5 1.35-2.25	6 2.25-3.15	7 3.25-4.15	8 4.15-5.05
MONDAY	DS	DS	SS	EDC	CS	EDC LAB	EDC LAB	
TUESDAY	DSD	DSD	CS	CS	EDC	EDC	RPLA	LIB
WEDNESDAY	EDC	EDC	DS	SS	DSD	DS LAB	DS LAB	
THURSDAY	CS	CS	RPLA	RPLA	DSD	EDC	PD LAB	
FRIDAY	RPLA	RPLA	SS	DSD THEORY	SS	DS	PET	
SATURDAY	SS	SS	DS	DSD	RPLA	RPLA	DS	EDC
BREAK								
LUNCH								
BREAK								
SL.NO	SUB CODE	SUBJECT TITLE			STAFF NAME			NO OF HOURS
1	EC3354	SIGNALS AND SYSTEM			Mr.P.RAMESH, AP/ECE			6
2	EC3352	DIGITAL SYSTEM DESIGN			Mr.P.M.BHARATH, AP/ECE			6
3	EC3353	ELECTRONIC DEVICES CIRCUITS			Mr.P.SARAVANAN, AP/ECE			6
4	MA3355	RANDOM PROCESS AND LINEAR ALGEBRA			Ms.R.CHANDRA PRABHA, AP/S&H			7
5	CS3351	DATA STRUCTURE			Ms.V.DHANALAKSHMI, AP/CSE			6
6	EC3351	CONTROL SYSTEM			Ms.M.PRAVEENA, AP/EEE			6

PRACTICAL

1	EC3361	ELECTRONIC DEVICES AND CIRCUITS LAB	Mr.P.SARAVANAN, AP/ECE	3
	CS3361	DATA STRUCTURE LAB	Ms.V.DHANALAKSHMI, AP/CSE	3
	GE3361	PROFESSIONAL DEVELOPMENT LAB	Mrs.V.GRIJA, AP/S&H	3



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A.R. ENGINEERING COLLEGE, VILLUPURAM

DEPARTMENT OF ECE

TIME TABLE FOR ODD SEMESTER (2021-2022)

III ECE - (V SEMESTER)

CLASS INCHARGE: Ms. N.SAVITHA, AP/ECE

DAY	1 9.30-10.20	2 10.20-11.10	3 11.25-12.15	4 12.15-1.05	5 1.35-2.25	6 2.25-3.15	7 3.25-4.15	8 4.15-5.05
MONDAY	DTSP	DTSP	DC	DC	DTSP	CN	APCE	APCE
TUESDAY	HR	HR	CAO	DC	APCE	CS LAB	CS LAB	CS LAB
WEDNESDAY	DC	DC	CAO	APCE	CN	DSP LAB	DSP LAB	DSP LAB
THURSDAY	CAO	CAO	APCE	CN	HR	HR	PET	PET
FRIDAY	CN	CN	CN	DTSP	DC	CAO	HR	LIB
SATURDAY	APCE	APCE	CN	DTSP	DTSP	CN LAB	CN LAB	CN LAB

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	NO OF HOURS
1	EC8551	COMMUNICATION NETWORK	Ms. N.SAVITHA, AP/ECE	7
2	EC8553	DISCRETE TIME SIGNAL PROCESSING	Ms. P.M.SUGANYA, AP/ECE	6
3	EC8552	COMPUTER ARCHITECTURE & ORGANISATION	Mrs. P.ENBARASI, AP/CSE	5
4	OCE551	AIR POLLUTION & CONTROL ENG	Mrs. K.KAVITHA, AP/S&H	6
5	EC8501	DIGITAL COMMUNICATION PRACTICAL	Mrs. P.LAKSHMIDEVI, AP/ECE	6
	GE8074	HUMAN RIGHTS	Mr. R.SIVAKUMAR, AP/MECH	6
	EC8562	DISCRETE TIME SIGNAL PROCESSING LAB	Ms. P.M.SUGANYA, AP/ECE	3
	EC8563	COMMUNICATION NETWORK LAB	Ms. N.SAVITHA, AP/ECE	3
	EC8561	COMMUNICATION SYSTEM LAB	Mrs. P.LAKSHMIDEVI, AP/ECE	3



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A.R ENGINEERING COLLEGE, VILLUPURAM
DEPARTMENT OF ECE
TIME TABLE FOR ODD SEMESTER (2021-2022)
FINAL YEAR ECE- (VII SEMESTER)

CLASS INCHARGE: Ms. A. DEEPALAKSHMI, AP/ECE

DAY	1 9.30-10.20	2 10.20-11.10	3 11.25-12.15	4 12.15-1.05	5 1.35-2.25	6 2.25-3.15	7 3.25-4.15	8 4.15-5.05
MONDAY	AWSN	AWSN	CR	HM	AME	HM	ERTS	OC
TUESDAY	AME	AME	AWSN	OC	CR	ACS LAB	ACS LAB	
WEDNESDAY	OC	OC	HM	CR	AME	ES LAB	ES LAB	
THURSDAY	CR	CR	AME	AWSN	OC	ERTS	PET	
FRIDAY	ERTS	ERTS	OC	HM	AWSN	AWSN	CR	LIB
SATURDAY	HM	HM	ERTS	CR	OC	AWSN	ERTS	AME

THEORY

SL.NO	SUB CODE	SUBJECT TITLE	STAFF NAME	NO OF HOURS
1	EC8702	ADHOC AND WIRELESS SENSOR NETWORKS	Ms. A. DEEPALAKSHMI, AP/ECE	7
2	EC8751	OPTICAL COMMUNICATION	Ms. V. KOKILA	7
3	EC8701	ANTENNA & MICROWAVE ENGG	Mr. P. RAMESH, AP/ECE	7
	EC8791	EMBEDDED & REAL TIME SYSTEMS	Ms. V. KOKILA	7
	OBM752	HOSPITAL MANAGEMENT	Ms. R. SUGUNADEVI	6
	EC8071	COGNITIVE RADIO	Ms. A. DEEPALAKSHMI, AP/ECE	7

PRACTICAL

1	EC8761	ADVANCE COMMUNICATION LAB	Mr. P. RAMESH, AP/ECE	3
2	EC8711	EMBEDDED LAB	Ms. V. KOKILA	3

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Dr. P. ANNIE R. DHAS, M.E., Ph.D.,
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REF : AREC / ECE/01

Date :21.08.2021

CIRCULAR

It is planned to conduct the course committee meeting for the course **EC8402-AD HOC AND WIRELESS SENSOR NETWORKS** meeting will be held on 23.08.2021 at ECE Staff room sat 1.15 Pm. The following staff members those who are handling the above course are requested to attend the meeting in time without fail.

CONVENER :

MR.SARAVAN.P AP/ECE

COMMITTEE MEMBERS :

1. Mr. M. KAMARAJAN AP/ECE
2. Dr. V.MURUGAN AP/ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REF : AREC /ECE/ 01

Date : 24.08.2021

MINUTES OF MEETING

The course committee meeting for the course ~~EC8702~~ AD HOC AND WIRELESS SENSOR NETWORKS was conducted on 23.08.2021 at ECE Staff room at 1.10 pm. The following staff members were present.

CONVENER :

MR.SARAVANAN .P AP/ ECE -

COMMITTEE MEMBERS :

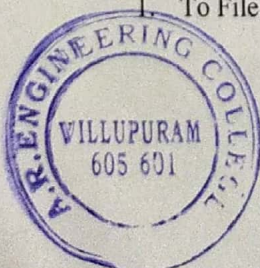
1. Mr. M. KAMARAJAN AP/ECE
2. Dr. V.MURUGAN AP/ECE

The following discussions are made :

- 1.The staff members are instructed to complete first and second units on or before 21.09.2021.
- 2.The staff members are instructed to conduct daily test in their class hours itself.
- 3.Counseling to be done for those students who are obtained less than 50% of marks in the class test to improve their performance in forthcoming tests.
- 4.Staff are instructed to check the class notes of the students regularly.

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COURSE PLAN

INDEX

ODD SEMESTER 2021- 2022

S. No	Contents	Page No
1	SYLLABUS	2
2	COURSE PLAN	3
3	LESSON PLAN	4-07
4	ASSIGNMENT TOPICS	08
5	STUDENTS NAME LIST	09
6	INTERNAL ASSESSMENT MARK LIST	10
7	CO-PO MAPPING	11



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COURSE PLAN

ACADEMIC YEAR 2021-2022

ODD SEMESTER

NAME OF THE FACULTY: Mr. J.P. SARAVANAN

SUBJECT CODE & NAME: EC8702 & ADHOC AND WIRELESS SENSOR NETWORKS

CREDITS : 03

L-T-P-C : 3-0-0-3

YEAR/SEMESTER : IV/VII

DEGREE/BRANCH : B.E/ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

AD HOC AND WIRELESS SENSOR NETWORKS

L T P C
3 0 0 3

OBJECTIVES:

The student should be made to:

- Learn Ad hoc network and Sensor Network fundamentals
- Understand the different routing protocols
- Have an in-depth knowledge on sensor network architecture and design issues
- Understand the transport layer and security issues possible in Ad hoc and sensor networks
- Have an exposure to mote programming platforms and tools

UNIT I AD HOC NETWORKS – INTRODUCTION AND ROUTING PROTOCOLS

9

Elements of Ad hoc Wireless Networks, Issues in Ad hoc wireless networks, Example Commercial applications of Ad hoc networking, Ad hoc wireless Internet, Issues in Designing a Routing Protocol for Ad Hoc Wireless Networks, Classifications of Routing Protocols, Table Driven Routing Protocols - Destination Sequenced Distance Vector (DSDV), On-Demand Routing protocols –Ad hoc On-Demand Distance Vector Routing (AODV).

UNIT II SENSOR NETWORKS – INTRODUCTION & ARCHITECTURES

9

Challenges for Wireless Sensor Networks, Enabling Technologies for Wireless Sensor Networks, WSN application examples, Single-Node Architecture - Hardware Components, Energy Consumption of Sensor Nodes, Network Architecture - Sensor Network Scenarios, Transceiver Design Considerations, Optimization Goals and Figures of Merit.

UNIT III WSN NETWORKING CONCEPTS AND PROTOCOLS

9



2

[Signature]
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VILLUPURAM-605601

MAC Protocols for Wireless Sensor Networks, Low Duty Cycle Protocols And Wakeup Concepts - S-MAC, The Mediation Device Protocol, Contention based protocols - PAMAS, Schedule based protocols – LEACH, IEEE 802.15.4 MAC protocol, Routing Protocols- Energy Efficient Routing, Challenges and Issues in Transport layer protocol.

UNIT IV SENSOR NETWORK SECURITY

9

Network Security Requirements, Issues and Challenges in Security Provisioning, Network Security Attacks, Layer wise attacks in wireless sensor networks, possible solutions for jamming, tampering, black hole attack, flooding attack. Key Distribution and Management, Secure Routing – SPINS, reliability requirements in sensor networks.

UNIT V SENSOR NETWORK PLATFORMS AND TOOLS

9

Sensor Node Hardware – Berkeley Motes, Programming Challenges, Node-level software platforms – TinyOS, nesC, CONTIKIOS, Node-level Simulators – NS2 and its extension to sensor networks, COOJA, TOSSIM, Programming beyond individual nodes – State centric programming.

TOTAL: 45 PERIODS

OUTCOMES:

At the end of the course, the student would be able to:

- Know the basics of Ad hoc networks and Wireless Sensor Networks
- Apply this knowledge to identify the suitable routing algorithm based on the network and User requirement
- Apply the knowledge to identify appropriate physical and MAC layer protocols
- Understand the transport layer and security issues possible in Ad hoc and sensor Networks.
- Be familiar with the OS used in Wireless Sensor Networks and build basic modules

TEXT BOOKS:

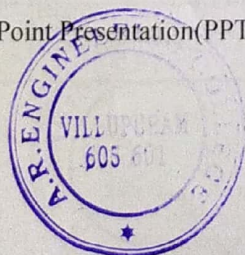
1. C. Siva Ram Murthy and B. S. Manoj, "Ad Hoc Wireless Networks Architectures and Protocols", Prentice Hall, PTR, 2004. (UNIT I)
2. Holger Karl, Andreas Willig, "Protocol and Architecture for Wireless Sensor Networks", John Wiley publication, Jan 2006. (UNIT II-V)

REFERENCES:

1. Feng Zhao, Leonidas Guibas, "Wireless Sensor Networks: an information processing approach", Elsevier publication, 2004.
2. Charles E. Perkins, "Ad Hoc Networking", Addison Wesley, 2000.
3. I.F. Akyildiz, W. Su, Sankarasubramaniam, E. Cayirci, "Wireless sensor networks: a survey", computer networks, Elsevier, 2002, 394 - 422.

TEACHING AIDS:

1. Black Board (BB)
2. Power Point Presentation (PPT)



3


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3.Models/Charts(M/C)

TEACHING METHODOLOGY:

1.Lecture(L)

2.Seminar(S)

3.Guest Lecture(GL)

LESSON PLAN

A.R ENGINEERING COLLEGE KAPPIYAMPULIYUR							
LESSON PLAN							
Department of Electronics and Communication Engineering							
Name of the Subject	AD HOC AND WIRELESS SENSOR NETWORKS	Regulation	2017				
Subject Code	EC8702	Year / Sem	IV/VII				
Acad Year	2021-2022	Batch	2019-2023				
Course Objectives							
Learn Ad hoc network and Sensor Network fundamentals							
Understand the different routing protocols							
Have an in-depth knowledge on sensor network architecture and design issues							
Understand the transport layer and security issues possible in Ad hoc and Sensor networks							
Have an exposure to mote programming platforms and tools							
Course Outcomes							
CO1: Explain the fundamental Concepts and applications of ad hoc and wireless sensor networks and apply this knowledge to identify the suitable routing algorithm based on the network and user requirement							
CO2: Describe the challenges for WSN and single node network architecture							
CO3: Apply the knowledge to identify appropriate physical and MAC layer protocols and challenges in designing MAC, routing and transport protocols for wireless ad-hoc/sensor networks.							
CO4: Describe the different security attacks and possible solutions in Ad hoc and sensor networks.							
CO5: Comprehend the various sensor network Platforms, tools used in Wireless Sensor Networks and build basic modules							
Lesson Plan							
Sl. No.	Topic (s)	T / R* Book	Periods Required	Mode of Teaching (BB / PPT / NPTEL / MOOC / etc)	Blooms Level (L1-L6)	CO	PO
UNIT I AD HOC NETWORKS – INTRODUCTION AND ROUTING PROTOCOLS							
1	Elements of Ad hoc Wireless Networks	T1	1	BB	L1	CO1	PO1
2	Issues in Ad hoc wireless networks	T1	1	BB	L2	CO1	PO1-PO3
3	Example commercial applications of Ad hoc networking	T1	1	BB	L2	CO1	PO1-PO2, PO12

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4	Ad hoc wireless Internet	T1		BB,PPT	L 2	CO 1	PO1- PO2
5	Issues in Designing a Routing Protocol for Ad Hoc Wireless Networks	T1		BB,PPT	L 2	CO 1	PO1- PO3
6	Classifications of Routing Protocols	T1		BB,PPT	L 1	CO 1	PO1
7	Table Driven Routing Protocols	T1		BB,PPT	L 3	CO 1	PO1- PO3
8	Destination Sequenced Distance Vector (DSDV)	T1		BB,PPT	L 3	CO 1	PO1- PO3
9	On-Demand Routing protocols –Ad hoc On-Demand Distance Vector Routing (AODV)	T1		PP T	L 3	CO 1	PO1- PO3,P O4

Suggested Activity: Assignment on Routing protocol

Evaluation method : Assignment

UNIT II SENSOR NETWORKS – INTRODUCTION & ARCHITECTURES

10	Challenges for Wireless Sensor Networks	T2		BB	L 2	CO 2	PO1- PO2
11	Enabling Technologies for Wireless Sensor Networks	T2		BB,PPT	L 2	CO 2	PO1- PO2
12	WSN application examples	T2		BB,PPT	L 2	CO 2	PO1- PO3
13	Single-Node Architecture - Hardware Components	T2		BB,PPT	L 2	CO 2	PO1- PO3
14	Energy Consumption of Sensor Nodes	T2		BB	L 2	CO 2	PO1- PO3
15	Network Architecture	T2		BB,PPT	L 2	CO 2	PO1- PO3
16	Transceiver Design Considerations	T2		BB,PPT	L 3	CO 2	PO1- PO3
17	Optimization Goals and Figures of Merit.	T2		BB	L 2	CO 2	PO1- PO2
18	Difference between MANET and WSN	T2		BB	L 2	CO 2	PO1- PO2

Suggested Activity: Quiz

Evaluation method : MCQ-Google form

UNIT III WSN NETWORKING CONCEPTS AND PROTOCOLS

19	MAC Protocols for Wireless Sensor Networks	T1		PP T	L 2	CO 3	PO1- PO2
20	Low Duty Cycle Protocols And Wakeup Concepts	T1		BB,PPT	L 2	CO 3	PO1- PO2
21	S-MAC,T-MAC,B-MAC	T1		PP T	L 2	CO 3	PO1- PO3
22	The Mediation Device Protocol	T1		BB,PPT	L 2	CO 3	PO1- PO3
23	Contention based protocols- PAMAS	T1		BB,PPT	L 2	CO 3	PO1- PO3
24	Schedule based protocols – LEACH	T1		BB,PPT	L 3	CO 3	PO1- PO3
25	IEEE 802.15.4 MAC protocol,SPIN, TRAMA	T1		BB,PPT	L 2	CO 3	PO1- PO3
26	Routing Protocol-Energy Efficient Routing	R1,T 1		BB,PPT	L 2	CO 3	PO1- PO3
27	Challenges and Issues in Transport layer protocol.	R1,T 1		PP T	L 2	CO 3	PO1- PO3

Suggested Activity: Virtual Lab-IIT Demo on Leach

Evaluation method : Virtual Lab MCQ Test



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UNIT IV SENSOR NETWORK SECURITY

28	Network Security Requirements	T2	1	PP T	L 1	CO4	PO1- PO2
29	Issues and Challenges in Security Provisioning.	T2	1	PP T	L 1	CO4	PO1- PO2
30	Network Security Attacks	T2	1	PPT,NPTEL	L 2	CO4	PO1- PO2
31	Layer wise attacks in wireless sensor networks	T2	1	BB	L 2	CO4	PO1- PO3
32	Possible solutions for Jamming, Tampering	T2	1	BB	L 2	CO4	PO1- PO2
33	Flooding Attack	T2	1	BB	L 2	CO4	PO1- PO2
34	Key Distribution and Management	T2	1	BB	L 2	CO4	PO1- PO3
35	Secure Routing – SPINS	T2	1	PP T	L 2	CO4	PO1- PO3
36	Reliability Requirements in Sensor Networks	T2	1	BB	L 2	CO4	PO1- PO2

Suggested Activity: MCQ

Evaluation method : Google form -MCQ Test

UNIT V SENSOR NETWORK PLATFORMS AND TOOLS

37	Sensor Node Hardware	T2	1	BB	L 2	CO5	PO1- PO2
38	Berkeley Motes	T2	1	PP T	L 2	CO5	PO1- PO2
39	Programming Challenges	T2	1	PP T	L 2	CO5	PO1- PO3
40	Node-level software platforms – TinyOS	T2	1	PP T	L 2	CO5	PO1- PO3
41	nesC, CONTIKIOS	T2	1	PP T	L 2	CO5	PO1- PO3
42	Node-level Simulators – NS2 and its extension to sensor networks.	T2	1	PP T	L 2	CO5	PO1- PO3,PO 4,PO5
43	COOJA, TOSSIM	T2	1	PP T	L 2	CO5	PO1- PO3
44	Programming beyond individual nodes	T2	1	PP T	L 2	CO5	PO1- PO2
45	State centric programming.	T2	1	PP T	L 2	CO5	PO1- PO3

Suggested Activity: Assignment on COOJA and Tossim

Evaluation method : Assignment

Content Beyond the Syllabus Planned

1	Wireless Sensor Networks for In-Home Healthcare: Potential and Challenges
2	The Precision Agriculture Based on Wireless Sensor Network
Text Books	
1	C. Siva Ram Murthy and B. S. Manoj, —Ad Hoc Wireless Networks Architectures and vProtocols, Prentice Hall, PTR, 2004. (UNIT I)
2	Holger Karl , Andreas willig, —Protocol and Architecture for Wireless Sensor Networks, vJohn wiley publication, Jan 2006.(UNIT II-V)
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1	Feng Zhao, Leonidas Guibas, —Wireless Sensor Networks: an information processing vapproach, Elsevier publication, 2004.
2	Charles E. Perkins, —Ad Hoc Networking, Addison Wesley, 2000.
3	I.F. Akyildiz, W. Su, Sankarasubramaniam, E. Cayirci, —Wireless sensor networks: a survey, computer networks, Elsevier, 2002, 394 : 422.



V. Kumar

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ASSIGNMENT TOPICS

S.NO	ASSIGNMENT TITLE
1	Ad hoc wireless Internet
2	Layer wise attacks in wireless sensor networks
3	Node-level software platforms – TinyOS

V. K. S.



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2	420320106002	GURUNATHAN R
3	20320106003	ISWARYA M
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5	420320106005	SNEKHA T
6	420320106301	ANTONY GABRIEL A
7	420320106302	ASHOKBARATHI E
8	420320106303	KALANITHI J
9	420320106304	PRIYADHARSHINI S
10	420320106305	SOUNDARAPANDIAN S
11	420320106306	SUGUMARAN S

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STUDENTS INTERNAL MARK LIST

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1	420320106001	GOMATHI P	60	65
2	420320106002	GURUNATHAN R	58	68
3	20320106003	ISWARYA M	62	70
4	420320106004	SHARMILA A	55	58
5	420320106005	SNEKHA T	59	64
6	420320106301	ANTONY GABRIEL A	70	55
7	420320106302	ASHOKBARATHI E	62	65
8	420320106303	KALANITHI J	62	64
9	420320106304	PRIYADHARSHINI S	65	60
10	420320106305	SOUNDARAPANDIAN S	58	55
11	420320106306	SUGUMARAN S	65	65
12	420320106307	VEERADAS S	65	60



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CO-PO MAPPING

CO PO Mapping														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	0	0	0	0	0	0	0	0	1	1	0
CO2	3	2	1	1	0	0	0	0	0	0	1	0	0	0
CO3	2	2	1	0	0	0	0	0	0	0	0	0	0	0
CO4	2	2	1	0	0	0	0	0	0	0	0	0	0	0
CO5	1	2	1	0	1	0	0	0	0	0	0	1	0	0
Avg	2.2	2	1	1	1	0	0	0	0	0	0.2	1	1	0



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT EXAM-I (01-10-2021 TO 08-10-2021)(ODD -SEM)

TIME TABLE

MAX.MARKS:100

TIMES: 10 AM TO 1 PM

SECOND YEAR

DATE	SUBJECT CODE	SUBJECT NAME
01.10.2021	EC3354	SIGNALS AND SYSTEM
04.10.2021	EC3352	DIGITAL SYSTEM DESIGN
05.10.2021	EC3353	ELECTRONIC DEVICES CIRCUITS
06.10.2021	MA3355	RANDOM PROCESS AND LINEAR ALGEBRA
07.10.2021	CS3351	DATA STRUCTURE
08.10.2021	EC3351	CONTROL SYSTEM

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
01.10.2021	EC8551	COMMUNICATION NETWORK
04.10.2021	EC8553	DISCRETE TIME SIGNAL PROCESSING
05.10.2021	EC8552	COMPUTER ARCHITECTURE & ORGANISATION
06.10.2021	OCE551	AIR POLLUTION & CONTROL ENGG
07.10.2021	EC8501	DIGITAL COMMUNICATION
08.10.2021	GE8074	HUMAN RIGHTS

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
01.10.2021	EC8702	ADHOC AND WIRELESS SENSOR NETWORKS
04.10.2021	EC8751	OPTICAL COMMUNICATION
05.10.2021	EC8701	ANTENNA & MICROWAVE ENGG
06.10.2021	EC8791	EMBEDDED & REAL TIME SYSTEMS
07.10.2021	OBM752	HOSPITAL MANAGEMENT
08.10.2021	EC8071	COGNITIVE RADIO

HOD

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT EXAM-II (27-10-2021 TO 03-11-2021)(ODD -SEM)

TIME TABLE

MAX.MARKS:100

TIMES: 10 AM TO 1 PM

SECOND YEAR

DATE	SUBJECT CODE	SUBJECT NAME
27.10.2021	EC3354	SIGNALS AND SYSTEM
28.10.2021	EC3352	DIGITAL SYSTEM DESIGN
29.10.2021	EC3353	ELECTRONIC DEVICES CIRCUITS
01.11.2021	MA3355	RANDOM PROCESS AND LINEAR ALGEBRA
02.11.2021	CS3351	DATA STRUCTURE
03.11.2021	EC3351	CONTROL SYSTEM

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
27.10.2021	EC8551	COMMUNICATION NETWORK
28.10.2021	EC8553	DISCRETE TIME SIGNAL PROCESSING
29.10.2021	EC8552	COMPUTER ARCHITECTURE & ORGANISATION
01.11.2021	OCE551	AIR POLLUTION & CONTROL ENGG
02.11.2021	EC8501	DIGITAL COMMUNICATION.
03.11.2021	GE8074	HUMAN RIGHTS

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
27.10.2021	EC8702	ADHOC AND WIRELESS SENSOR NETWORKS
28.10.2021	EC8751	OPTICAL COMMUNICATION
29.10.2021	EC8701	ANTENNA & MICROWAVE ENGG
01.11.2021	EC8791	EMBEDDED & REAL TIME SYSTEMS
02.11.2021	OBM752	HOSPITAL MANAGEMENT
03.11.2021	EC8071	COGNITIVE RADIO

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MODEL EXAM-I (20-11-2021 TO 26-11-2021)(ODD -SEM)

TIME TABLE

MAX.MARKS:100

TIMES: 10 AM TO 1 PM

SECOND YEAR

DATE	SUBJECT CODE	SUBJECT NAME
20.11.2021	EC3354	SIGNALS AND SYSTEM
22.11.2021	EC3352	DIGITAL SYSTEM DESIGN
23.11.2021	EC3353	ELECTRONIC DEVICES CIRCUITS
24.11.2021	MA3355	RANDOM PROCESS AND LINEAR ALGEBRA
25.11.2021	CS3351	DATA STRUCTURE
26.11.2021	EC3351	CONTROL SYSTEM

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
20.11.2021	EC8551	COMMUNICATION NETWORK
22.11.2021	EC8553	DISCRETE TIME SIGNAL PROCESSING
23.11.2021	EC8552	COMPUTER ARCHITECTURE & ORGANISATION
24.11.2021	OCE551	AIR POLLUTION & CONTROL ENGG
25.11.2021	EC8501	DIGITAL COMMUNICATION
26.11.2021	GE8074	HUMAN RIGHTS

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
20.11.2021	EC8702	ADHOC AND WIRELESS SENSOR NETWORKS
22.11.2021	EC8751	OPTICAL COMMUNICATION
23.11.2021	EC8701	ANTENNA & MICROWAVE ENGG
24.11.2021	EC8791	EMBEDDED & REAL TIME SYSTEMS
25.11.2021	OBM752	HOSPITAL MANAGEMENT
26.11.2021	EC8071	COGNITIVE RADIO



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Roll No.

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ECE**INTERNAL ASSESSMENT TEST-1**

PROGRAMME & BRANCH	B.E & ECE	SEMESTER	VII	
COURSE CODE & NAME	EC8702 & ADHOC AND WIRELESS SENSOR NETWORKS		DATE	01.10.2021
MAXIMUM MARKS	100	DURATION AND TIME	3HRS & 10 AM TO 1.00PM	

PART- A (Answer All Questions)**(5 x 2 = 10 Marks)**

Q. No	Questions	BL	CO	Mark
1	What is mobility?	BL1	1	2
2	What are the applications of Adhoc wireless network?	BL1	1	2
3	Define sensor networks.	BL2	1	2
4	Why Adhoc networks are needed?	BL2	1	2
5	What are the challenging issues in Adhoc network maintenance	BL3	1	2
6	Define noise figure.	BL3	1	2
7	What are the components of WSN?	BL2	2	2
8	List the issues and challenges in designing a sensor networks.	BL2	2	2
9	Is the WSN has auto configuration? Briefly discuss.	BL2	2	2
10	What is Dynamic Voltage Scaling (DVS)?	BL2	2	2

PART- B (Answer Any Three Question)**(04x 10 = 40 Marks)**

Q. No	Questions	BL	CO	Mark
11(a)	Briefly explain the architecture of Adhoc and Sensor Networks.	BL 2	2	13
OR				
11(b)	Write short notes on Cellular & Adhoc Networks.	BL 2	2	13
12(a)	Differentiate Cellular networks and Adhoc Wireless Networks	BL 2	2	13
OR				
12(b)	Explain the application areas of Adhoc Networks.	BL 1	2	13
13(a)	What are the issues and challenges of Adhoc systems?	BL 2	2	13
OR				
13(b)	Explain the major challenges that a routing protocol designed for Adhoc wireless networks.	BL 2	2	13
14 (a)	Explain about the hardware components of sensor nodes.	BL 2	3	13



14(b)	Explain the three categories of sensor with example.	BL 4	3	13
OR				
15(a)	Explain the architecture of wireless sensor networks.	BL 4	3	13
OR				
15(b)	Explain the Operation States With Different Power Consumption.	BL 1	3	13
(COMPULSORY)				
16	Explain the Sensor Network Scenarios with neat diagram.	BL 2	3	16

Blooms Level	Marks
1	22
2	19
3	64
4	36
5	26
6	13
TOTAL	180

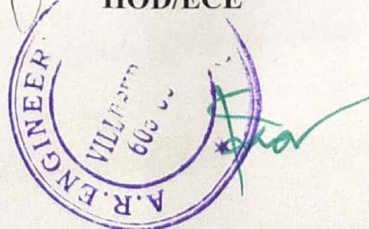
BL – Bloom's Taxonomy Levels

****BL1 – Remember BL2 – Understand BL3 – Apply BL4 – Analysis BL5 – Evaluate
BL6 – Create****

Q.NO	Course Outcome	Marks
1,2,3,4,5,6,7,8,9,10 &11-16	AD HOC NETWORKS – INTRODUCTION AND ROUTING PROTOCOLS	180

M. S. S. S.
Prepared By
COURSE INSTRUCTOR

P. K. S.
Verified By
HOD/ECE



F. S. S.
Approved By
PRINCIPAL

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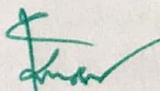
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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12	III Semester Minutes of meeting - 2	16-17




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :18.08.2021

CIRCULAR

The first class committee meeting for VII semester ECE is to be held in the HOD cabin on 21.08.2021 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Placement activities for final – year students.

S.NO	NAME	DESIGNATION	SIGN
1	MS.DEEPALAKSHMI.A, AP/ECE	Chair person	
2	MS.KOKILA.V, AP/ECE	HOD	
3	MR.SARAVANAN.P, AP/ECE	Member	
4	MR.SIVAKUMAR.R, AP/ECE	Member	
5	MR.HARISHANKAR V	Student Representative	
6	MS.SUVASRI S	Student Representative	

Copy to:

1. Circulate among staff members.
2. Class advisor File.
3. Final – year students.

HOD



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KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.



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Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :21.08.2021

Minutes of meeting

The first class committee meeting for VII Semester ECE was held on 21.08.2021 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MS.DEEPALAKSHMI.A, AP/ECE	Chair person	<i>Deepalakshmi</i>
2	MS.KOKILA.V, AP/ECE	HOD	<i>K. Kokila</i>
3	MR.SARAVANAN.P, AP/ECE	Member	<i>Saravanan</i>
4	MR.SIVAKUMAR.R, AP/ECE	Member	<i>Sivakumar</i>
5	MR.HARISHANKAR V	Member	<i>Harishankar</i>
6	MS.SUVASRI S	Student Representative	<i>S. Suvasri</i>
7	MS.SUVASRI S	Student Representative	<i>S. Suvasri</i>

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the students to select the elective subject.
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.
7	Students were instructed to choose good research topics and prepare batches for the project.	HOD advised the students to choose creative and innovative research topics for the project and get approval from the guide.
8	Students are advised to prepare well to attend the placements and other exams.	Placement coordinators are instructed to identify new additional recruiters and

3



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KAPPIYAMPULIYUR POST,
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		arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.
--	--	---

J. Koy

HOD

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2. Class advisor File.



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[Signature]
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :18.08.2021

CIRCULAR

The first class committee meeting for V semester ECE is to be held in the HOD cabin on 21.08.2021 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Batch preparation and research topics were chosen for the project work.
- Placement activities for final – year students.

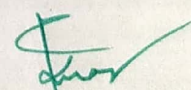
S.NO	NAME	DESIGNATION	SIGN
1	MR.SARAVANAN.P, AP/ECE	Chair person	SARAVANAN
2	MS.KOKILA.V, AP/ECE	HOD	V. Kokila
3	MR.P.M.BHARATH, AP/ECE	Member	M. Bharath
4	MR.R.SIVAKUMAR, AP/ECE	Member	R. Sivakumar
5	MR.P.RAMESH, AP/ECE	Member	P. Ramesh
6	MR.TAMILARASAN.S	Student Representative	Tamilarasan
7	MS.VINOTHINI.V	Student Representative	Vinothini

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- 2.Class advisor File.
- 3.Final – year students.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :21.08.2021

Minutes of meeting

The first class committee meeting for V Semester ECE was held on 21.08.2021 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR.SARAVANAN.P, AP/ECE	Chair person	<i>Saravanan</i>
2	MS.KOKILA.V, AP/ECE	HOD	<i>Kokila</i>
3	MR.P.M.BHARATH, AP/ECE	Member	<i>M. Bharath</i>
4	MR.R.SIVAKUMAR, AP/ECE	Member	<i>Sivakumar</i>
5	MR.P.RAMESH, AP/ECE	Member	<i>Ramesh</i>
6	MR.TAMILARASAN.S	Student Representative	<i>Tamil Arasan</i>
7	MS.VINOTHINI.V	Student Representative	<i>Vinothini</i>

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the students to select the elective
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.

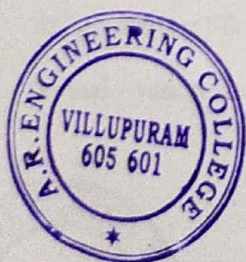
8	Students are advised to prepare well to attend the placements and other exams.	Placement coordinators are instructed to identify new additional recruiters and arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.
---	--	--

J. Kar

HOD

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1. Circulate among staff members.
2. Class advisor File.



[Signature]
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01/2021-22-ODD SEM

Date :18.08.2021

CIRCULAR

The first class committee meeting for III semester ECE is to be held in the HOD cabin on 21.08.2021 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Placement activities for final – year students.

S.NO	NAME	DESIGNATION	SIGN
1	MR.P.M.BHARATH, AP/ECE	Chair person	
2	MR.KOKILA.V .P AP/ ECE	HOD	
3	MS.R.CHANDRAPRABHA.A, AP/S&H	Member	
4	MRS.LAKSHMIDEVI, AP/ECE	Member	
5	MS.A.SUGANYA, AP/ECE	Member	
6	MS.GOMATHI.P	Student Representative	
7	MR.KALANITHI.J	Student Representative	

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- 1.Circulate among staff members.
- 2.Class advisor File.
- 3.Final – year students.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :21.08.2021

Minutes of meeting

The first class committee meeting for III Semester ECE was held on **21.08.2021** in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR.P.M.BHARATH, AP/ECE	Chair person	
2	MR.KOKILA.V.P AP/ ECE	HOD	
3	MS.R.CHANDRAPRABHA.A, AP/S&H	Member	
4	MRS.LAKSHMIDEVI, AP/ECE	Member	
5	MS.A.SUGANYA, AP/ECE	Member	
6	MS.GOMATHI.P	Student Representative	
7	MR.KALANITHI.J	Student Representative	

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the students to select the elective subject.
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures/seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.
7	Students were instructed to choose good research topics and prepare batches for the project.	HOD advised the students to choose creative and innovative research topics for the project and get approval from the guide.



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8	Students are advised to prepare well to attend the placements and other exams.	Placement coordinators are instructed to identify new additional recruiters and arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.
---	--	--

V. K. R.
HOD

Copy

1. Circulate among staff members.
2. Class advisor File.



[Signature]
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE /01 /2021-22 –ODD SEM

Date :18.10.2021

CIRCULAR

The second class committee meeting for VII semester ECE is to be held in the HOD cabin on 19.10.2021 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- University result analysis for the previous semester.
- Status of the project work and conduct review for students.
- Internship benefits.
- Students gets fellowships in various project in reputed organization.

S.NO	NAME	DESIGNATION	SIGN
1	MS.DEEPALAKSHMI.A, AP/ECE	Chair person	
2	MS.KOKILA.V, AP/ECE	HOD	
3	MR.SARAVANAN.P, AP/ECE	Member	
4	MR.SIVAKUMAR.R, AP/ECE	Member	
5	MR.HARISHANKAR V	Member	
6	MS.SUVASRI S	Student Representative	
7	MS.SUVASRI S	Student Representative	

Copy to:

4. Circulate among staff members.
5. Class advisor File.
6. Final – year students.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :19.10.2021

Minutes of meeting

The second class committee meeting for VII Semester ECE was held on 19.10.2021 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MS.DEEPALAKSHMI.A, AP/ECE	Chair person	
2	MS.KOKILA.V, AP/ECE	HOD	
3	MR.SARAVANAN.P, AP/ECE	Member	
4	MR.SIVAKUMAR.R, AP/ECE	Member	
5	MR.HARISHANKAR V	Member	
6	MS.SUVASRI S	Student Representative	
7	MS.SUVASRI S	Student Representative	

S.NO	Points discussed	Action taken
1	HOD instructed the students to submit their details for the convocation and clear the fees due.	Class advisor collect the data sheet of students and prepare the convocation details.
2	HOD instructed the students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve their skills through an internship and in-plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	Students were instructed to update the current status of the project.	A final review was conducted by the coordinator who informed to submit the final report and project kit to the guide.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.
6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposium to develop their knowledge.	Display the brochures of various ODDts conducted by the other institution on the notice board. And encourage the students to



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306

8	HOD instructed the students to register for apprenticeships in government and private industries.	participate. HOD explain the process of registration for apprenticeship and its benefits to the students.
---	---	--

[Signature]
HOD

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1. Circulate among staff members.
2. Class advisor File.



[Signature]
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :18.10.2021

CIRCULAR

The second class committee meeting for V semester ECE is to be held in the HOD cabin on 19.10.2021 at 01.05 pm. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.
- Actively participate in paper presentations and symposiums.

S.NO	NAME	DESIGNATION	SIGN
1	MR.SARAVANAN.P, AP/ECE	Chair person	<i>Saravanan P</i>
2	MS.KOKILA.V, AP/ECE	HOD	<i>V. K.</i>
3	MR.P.M.BHARATH, AP/ECE	Member	<i>P. M. Bharath</i>
4	MR.R.SIVAKUMAR, AP/ECE	Member	<i>R. Sivakumar</i>
5	MR.P.RAMESH, AP/ECE	Member	<i>P. Ramesh</i>
6	MR.TAMILARASAN.S	Student Representative	<i>Tamilarasan S</i>
7	MS.VINOTHINI.V	Student Representative	<i>V. Vinodhini</i>

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- 1.Circulate among staff members.
- 2.Class advisor File.
- 3.Third –year Students.

V. K.
HOD



[Signature]
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :19.10.2021

Minutes of meeting

The second class committee meeting for V Semester ECE was held on 19.10.2021 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR.SARAVANAN.P, AP/ECE	Chair person	
2	MS.KOKILA.V, AP/ECE	HOD	
3	MR.P.M.BHARATH, AP/ECE	Member	
4	MR.R.SIVAKUMAR, AP/ECE	Member	
5	MR.P.RAMESH, AP/ECE	Member	
6	MR.TAMILARASAN.S	Student Representative	
7	MS.VINOTHINI.V	Student Representative	

S.NO	Points discussed	Action taken
1	The Students were advised again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
2	HOD instructed the Students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve the skills through an internship and in -plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advised to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.
6	HOD instructed the students to complete their observation and turn in their record work by	The lab in charge verifies the observation and records and signs the



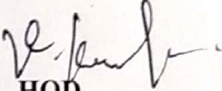
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KAPPIYAMPULIYUR POST,
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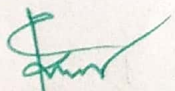
	the deadline specified by the particular lab in charge.	sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various ODDTs conducted by the other institution on the notice board. And encourage the students to participate.

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- 2.Class advisor File.


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC /ECE/01 /2021-22 –ODD SEM

Date :18.10.2021

CIRCULAR

The second class committee meeting for III semester ECE is to be held in the HOD cabin On 19.10.2021 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.

S.NO	NAME	DESIGNATION	SIGN
1	MR.P.M.BHARATH, AP/ECE	Chair person	
2	MR.KOKILA.V .P AP/ ECE	HOD	
3	MS.R.CHANDRAPRABHA.A, AP/S&H	Member	
4	MRS.LAKSHMIDEVI, AP/ECE	Member	
5	MS.A.SUGANYA, AP/ECE	Member	
6	MS.GOMATHI.P	Student Representative	
7	MR.KALANITHI.J	Student Representative	

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2.Class advisor File.

3.second - year students

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / ECE/01 /2021-22 –ODD SEM

Date :18.10.2021

Minutes of meeting

The second class committee meeting for III Semester ECE was held on 18.10.2021 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR.P.M.BHARATH, AP/ECE	Chair person	<i>P.M. Bharath</i>
2	MR.KOKILA.V .P AP/ ECE	HOD	<i>P. Kokila</i>
3	MS.R.CHANDRAPRABHA.A, AP/S&H	Member	<i>A. Chandraprabha</i>
4	MRS.LAKSHMIDEVI, AP/ECE	Member	<i>Lakshmi Devi</i>
5	MS.A.SUGANYA, AP/ECE	Member	<i>A. Suganya</i>
6	MS.GOMATHI.P	Student Representative	<i>P. Gomathi</i>
7	MR.KALANITHI.J	Student Representative	<i>Kalanithi J.</i>

S.NO	Points discussed	Action taken
1	The Students were advised again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
2	HOD instructed the Students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve the skills through an internship and in -plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advised to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.
6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department. <i>[Signature]</i>



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Dr.R.PANNEERDHASS, M.E., Ph.D.,
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VILLUPURAM-605 601.

7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various ODDts conducted by the other institution on the notice board. And encourage the students to participate.
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Copy

1. Circulate among staff members.
2. Class advisor File.

V. Kumar
HOD



Dr. R. Panneerdhass
Dr. R. PANNEERDHASS, M.E., Ph.D.
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A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

Reg. No. :

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Question Paper Code : 40456

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Seventh Semester

Electronics and Communication Engineering

C 8702 – AD HOC AND WIRELESS SENSOR NETWORKS

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

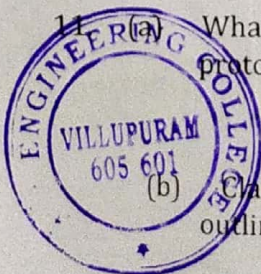
1. Outline the hidden vs. exposed terminal problem in ad hoc networks.
2. State any two applications of ad hoc networks.
3. Name the basic components of a sensor node.
4. State any two applications of wireless sensor networks.
5. What is data dissemination in a wireless sensor network?
6. Why wireless sensor networks need localization protocols?
7. What is security provisioning?
8. Define a black hole attack.
9. Present an outline of berkeley motes.
10. Name any two node-level simulators for wireless sensor networks.

PART B — (5 × 13 = 65 marks)

11. (a) What is a routing protocol? Outline the issues in designing a routing protocol for ad hoc wireless networks. (13)

Or

- (b) Classify routing protocols for ad hoc wireless networks and present an outline of the same. (13)



[Signature]
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VILLUPURAM-605 601.
(13)

12. (a) What is a wireless sensor network? Elaborate the wireless sensor network architecture with a diagram. (13)

Or

- (b) Present an elaborate note on the energy consumption rate for sensors in a wireless sensor network. (13)
13. (a) Outline the low energy adaptive clustering hierarchy (LEACH) protocol for wireless sensor networks. (13)

Or

- (b) What is energy efficient routing? Present an outline of energy efficient routing in wireless sensor networks. (13)
14. a) Outline the issues and challenges in security provisioning for wireless sensor networks.

Or

- (b) Present an outline of SPINS, security protocol for sensor networks. (13)
15. (a) Outline the features of node-level simulators for wireless sensor networks. (13)

Or

- (b) Outline the features of TinyOS and CONTIKI OS for wireless sensor networks. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Present an ad hoc network design that can be used in a geographic location affected by cyclone. State the functional requirements you are considering. (15)

Or

- (b) Present a wireless sensor network design that can be used for surveillance and environment monitoring in a zoo. A zoo is a facility in which animals are confined within enclosures, displayed to the public, and in which they may also be bred. State the functional requirements you are considering. (15)



[Signature]
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A. R. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to Anna university, Chennai)
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

**ACADEMIC YEAR
2022-2023**




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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ODD SEMESTER 2022 - 2023

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1	Anna University Academic Schedule
2	Academic Calendar
3	Internal Assessment Schedule




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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Anna University Academic Schedule




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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Date: 17.08.2022

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 - December 2022 (Semester III)

UG (FT/PT) & PG (FT/PT) Degree Programmes

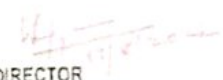


Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech. (Full-Time)	III	22.08.2022	08.12.2022	10.12.2022	21.12.2022
2	S.Arch. (Full-Time)	III				
3	B.E. / B.Tech. (Part-Time)	III				
4	M.B.A. (Full-Time & Part-Time)	III				
5	M.B.A. (5 Yrs-Integrated)	III				

RE - OPENING DAY FOR THE NEXT SEMESTER: 23.01.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.


DIRECTOR
ACADEMIC COURSES

DAC - 98




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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Date: 02.11.2022

REVISED

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY - CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 - December 2022 (ODD SEMESTER - Except Semester III)

UG Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1	B.E / B.Tech (Full-Time)	V, VI	10.08.2022	19.11.2022	06.12.2022**	21.11.2022	18.01.2023	01.12.2022	08.12.2022
2	B.E / B.Tech (Part-Time)	V, VI	10.08.2022	19.11.2022	-	21.11.2022	-	01.12.2022	-
3	B.Arch (Full-Time)	V, VI, VII							

RE - OPENING DAY FOR THE NEXT SEMESTER: 20.01.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	20.08.2022	Monday
2	03.09.2022	Friday
3	17.09.2022	Wednesday
4	15.10.2022	Tuesday
5	29.10.2022	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
6	05.11.2022	Monday
7	12.11.2022	Tuesday
8	19.11.2022	Wednesday
9	26.11.2022**	Thursday
10	03.12.2022**	Friday

**DIRECTOR
ACADEMIC COURSES**



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VILLUPURAM-605 601.

Date: 02.11.2022

REVISED - I



CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY, CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 - December 2022 (Semester III)

UG (FT/PT) & PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1	BE / B.Tech (Full Time)	III	22.08.2022	08.12.2022	27.12.2022	10.12.2022	18.01.2023	21.12.2022	29.12.2022
2	B.Arch (Full Time)	III							
3	BE / B.Tech (Part Time)	III	22.08.2022	08.12.2022	-	10.12.2022	18.01.2023	21.12.2022	29.12.2022
4	MBA (5 Yrs Integrated)	III							
5	MBA (Full Time & Part Time)	III	01.09.2022	19.12.2022	-	21.12.2022	18.01.2023	02.01.2023	29.12.2022

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.02.2023 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations)
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

DIRECTOR
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DAC-88



Dr. R. PANNEERDHASS, M.E., Ph.D.,
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CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: CHENNAI - 600 025

ACADEMIC SCHEDULE

August 2022 - December 2022 (ODD SEMESTER)

UG & PG (Regular / Self Supporting) Programmes offered in University Departments

(CEG / MIT / ACT / SAP Campuses)

Date: 15.12.2022

REVISED - II



Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised
1	B.E. / B.Tech. (Full-Time)	III, V, VI	17.08.2022	15.12.2022	23.12.2022**	21.12.2022	28.12.2022
2	B.Arch. (Full-Time)	II		26.11.2022	-	02.12.2022	-
3	M.Sc. (5 years) (Full-Time)	III		26.11.2022	-	02.12.2022	-

NOTE

1. Date of Commencement of Enrollment : 10.08.2022
2. Date of Application for Condonation : 08.11.2022 for B.Arch./ M.Sc. (5 yrs) and 30.11.2022 for B.E./B. Tech.
3. Generation of Prevention List : 26.11.2022 for B.Arch./ M.Sc. (5 yrs) and 23.12.2022 for B.E./B. Tech.
4. Clarification day : 19.01.2023 to 21.01.2023
5. Re-Opening day for the next semester : 23.01.2023 (Monday)
6. The Theory and Practical Examination schedules published in due course by the Additional Controller of Examinations (UDs) Anna University, Chennai should be followed. (Practical Examinations will be conducted before the theory examinations)
7. Assessment Schedule for the August 2022 - December 2022 should be followed strictly

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	27.08.2022	Friday
2	10.09.2022	Wednesday
3	24.09.2022	Monday
4	15.10.2022	Tuesday
5	29.10.2022	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
6	12.11.2022	Thursday
7	26.11.2022	Friday
8	03.12.2022	Monday
9	10.12.2022	Tuesday
10	17.12.2022**	Wednesday

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ACADEMIC COURSES



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KAPPIYAMPULIYUR POST,
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Date: 02.11.2022

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY - CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

November 2022 - April 2023 (SEMESTER I)

UG (FT/PT) Degree Programmes



Sl. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E / B.Tech (Full Time)	I	14.11.2022	28.11.2022	23.03.2023	25.03.2023	05.04.2023
2	B.Arch (Full Time)	I	14.11.2022	28.11.2022	15.03.2023	25.03.2023	05.04.2023
3	B.E / B.Tech (Part Time)	I	-	14.11.2022	01.03.2023	25.03.2023	05.04.2023

RE-OPENING DAY FOR THE NEXT SEMESTER: 15.05.2023 (Monday)

NOTE

1. The Theory and Practical Examination schedules will be published in due-course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.


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ACADEMIC COURSES




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ACADEMIC CALENDAR 2022 - 2023

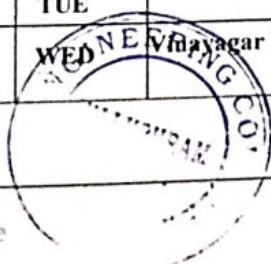



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VILLUPURAM-605 601.

ACADEMIC CALENDAR [2022-2023] | Odd Semester -AUG2022-DEC2023 |

*Total no of working hours/Day:08

DATE	DAY	MONTH: AUGUST 2022	NO OF WORKING DAYS
1	MON		
2	TUE		
3	WED		
4	THU		
5	FRI		
6	SAT		
7	SUN		
8	MON		
9	TUE	MOHARAM - HOLIDAY	
10	WED		
11	THU	Commencement of classes for II,III,IV Year	1
12	FRI		2
13	SAT		3
14	SUN	HOLIDAY	
15	MON	Independence Day-Celebration / Rangoli Competition	4
16	TUE		5
17	WED		6
18	THU		7
19	FRI	Sri Krishna Jayanthi -HOLIDAY	
20	SAT		8
21	SUN	HOLIDAY	
22	MON		9
23	TUE		10
24	WED		11
25	THU		12
26	FRI		13
27	SAT		14
28	SUN	HOLIDAY	
29	MON		15
30	TUE		16
31	WED	Vijayagar Chaturthi-HOLIDAY	



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DATE	DAY	MONTH:SEPTEMBER 2022	NO OF WORKING DAYS
1	THU		17
2	FRI		18
3	SAT		19
4	SUN	HOLIDAY	
5	MON	Teacher's day	20
6	TUE		21
7	WED	Internal Assessment - I Start II, III , IV Year (3 hrs)	22
8	THU	Internal Assessment Test – I	23
9	FRI	Internal Assessment Test – I	24
10	SAT		
11	SUN	HOLIDAY	
12	MON	Internal Assessment Test – I	25
13	TUE	Internal Assessment Test – I	26
14	WED	Internal Assessment Test – I End	27
15	THU	Engineer's Day	28
16	FRI		29
17	SAT		30
18	SUN	HOLI DAY	
19	MON		31
20	TUE		32
21	WED		33
22	THU		34
23	FRI		35
24	SAT		36
25	SUN	HOLIDAY	
26	MON		37
27	TUE		38
28	WED		39
29	THU		40
30	FRI		41




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DATE	DAY	MONTH:OCTOBER 2022	NO OF WORKING DAYS
1	SAT		42
2	SUN	Gandhi Jayanti- HOLIDAY	
3	MON		43
4	TUE	Saraswathi Pooja - HOLIDAY	
5	WED	Vijaya Dashami - HOLIDAY	
6	THU		44
7	FRI		45
8	SAT		46
9	SUN	Milad-un-Nabi HOLIDAY	
10	MON	INTERNAL ASSESSMENT -II STARTS, II, III, IV Year (3 hrs)	47
11	TUE	INTERNAL ASSESSMENT -II	48
12	WED	INTERNAL ASSESSMENT -II	49
13	THU	INTERNAL ASSESSMENT -II	50
14	FRI	INTERNAL ASSESSMENT -II	51
15	SAT	INTERNAL ASSESSMENT -II END	52
16	SUN	HOLIDAY	
17	MON		53
18	TUE		54
19	WED		55
20	THU		56
21	FRI		57
22	SAT		58
23	SUN	HOLIDAY	
24	MON	Diwali - HOLIDAY	
25	TUE		59
26	WED		60
27	THU		61
28	FRI		62
29	SAT		63
30	SUN	HOLIDAY	
31	MON		64



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DATE	DAY	MONTH: NOVEMBER 2022	NO OF WORKING DAYS
1	TUE		65
2	WED		66
3	THU		67
4	FRI		68
5	SAT		
6	SUN		
7	MON		69
8	TUE		70
9	WED		71
10	THU		72
11	FRI		73
12	SAT		74
13	SUN		
14	MON	Commencement of Induction Programme for I year Model Exam-I Starts II, III, IV Year	75
15	TUE	Model Exam-I	76
16	WED	Model Exam-I	77
17	THU	Model Exam-I	78
18	FRI	Model Exam-I	79
19	SAT	Model Exam-I End	80
20	SUN	HOLIDAY	
21	MON	Last Working Day for III, IV Year Commencement of Classes for I Year [Marked in the bracket]	81(1)
22	TUE	Commencement of Practical Examinations-II, III, IV Year	82(2)
23	WED		83(3)
24	THU		84(4)
25	FRI		85(5)
26	SAT		86(6)
27	SUN	HOLIDAY	
28	MON		87(7)
29	TUE		88(8)
30	WED		89(9)




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DATE	DAY	MONTH: DECEMBER 2022	NO OF WORKING DAYS
1	THU	Commencement of AU Semester Examinations -III,IV Year	90(10)
2	FRI	Last Working Day for II Year	91(11)
3	SAT		(12)
4	SUN	HOLIDAY	
5	MON	Commencement of Practical Examinations – II Year	
6	TUE		(13)
7	WED		(14)
8	THU		(15)
9	FRI		(16)
10	SAT		(17)
11	SUN	HOLIDAY	
12	MON	Commencement of AU Semester Examinations -II Year	(18)
13	TUE		(19)
14	WED		(20)
15	THU		(21)
16	FRI		(22)
17	SAT		
18	SUN	HOLIDAY	
19	MON		(23)
20	TUE		
21	WED		(24)
22	THU		(25)
23	FRI		(26)
24	SAT		(27)
25	SUN	CHRISTMAS HOLIDAY	
26	MON		(28)
27	TUE		(29)
28	WED		(31)
29	THU		(32)
30	FRI		(33)
31	SAT		(34)

Dr.R.PANNEERDHASS, M.E., Ph.D.,
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KADDIYAMPULIYUR POST,
VILLUPURAM-605 601.



DATE	DAY	MONTH: JANUARY 2023	NO OF WORKING DAYS
1	SUN	New Year-HOLIDAY	
2	MON		(35)
3	TUE		(36)
4	WED		(37)
5	THU		(38)
6	FRI	INTERNAL ASSESMENT- I Starts (First Year)	(39)
7	SAT	INTERNAL ASSESMENT - I	(40)
8	SUN	HOLIDAY	
9	MON	INTERNAL ASSESMENT- I	(41)
10	TUE	INTERNAL ASSESMENT - I	(42)
11	WED	INTERNAL ASSESMENT- I	(43)
12	THU	INTERNAL ASSESMENT- I Ends (First year)	(44)
13	FRI		(45)
14	SAT		
15	SUN	Pongal -HOLIDAY	
16	MON	Thiruvalluvar Day - HOLIDAY	
17	TUE	Uzhavar Thirunal HOLIDAY	
18	WED		(46)
19	THU		(47)
20	FRI		(48)
21	SAT		(49)
22	SUN	HOLIDAY	
23	MON		(50)
24	TUE		(51)
25	WED		(52)
26	THU	Republic Day- Celebration	
27	FRI		(53)
28	SAT		(54)
29	SUN	HOLIDAY	
30	MON		(55)
31	TUE		(56)



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DATE	DAY	MONTH/FEBRUARY 2023	NO OF WORKING DAYS
1	WED	INTERNAL ASSESSMENT- II Start 1 Year	(57)
2	THU	INTERNAL ASSESSMENT- II	(58)
3	FRI	INTERNAL ASSESSMENT- II	(59)
4	SAT	INTERNAL ASSESSMENT- II	(60)
5	SUN	Thal Poosam HOLIDAY	
6	MON	INTERNAL ASSESSMENT II	(61)
7	TUE	INTERNAL ASSESSMENT- II END 1 YEAR	(62)
8	WED		(63)
9	THU		(64)
10	FRI		(65)
11	SAT		(66)
12	SUN		
13	MON		(67)
14	TUE		(68)
15	WED		(69)
16	THU		(70)
17	FRI		(71)
18	SAT		(72)
19	SUN	HOLIDAY	
20	MON		(73)
21	TUE		(74)
22	WED		(75)
23	THU		(76)
24	FRI		(77)
25	SAT		(78)
26	SUN	HOLIDAY	
27	MON		(79)
28	TUE		(80)



[Signature]
Dr. R. PANNEERDHASS, M.E., Ph.D.,
 PRINCIPAL,
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 VADAKUCHIPALAYAM,
 KAPPIYAMPULIYUR POST,
 VILLUPURAM-605 601.

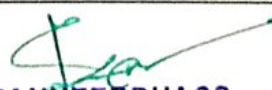
DATE	DAY	MONTH:MARCH 2023	NO OF WORKING DAYS
1	WED		(81)
2	THU		(82)
3	FRI		(83)
4	SAT	Blood Donation Camp - NSS	(84)
5	SUN	HOLIDAY	
6	MON		(85)
7	TUE		(86)
8	WED	Women's - Day celebration	(87)
9	THU	MODEL EXAM START 1 YEAR	(88)
10	FRI	MODEL EXAM	(89)
11	SAT	MODEL EXAM	(90)
12	SUN	HOLIDAY	
13	MON	MODEL EXAM	(91)
14	TUE	MODEL EXAM	(92)
15	WED	MODEL EXAM END 1 YEAR Engineer's Day	(93)
16	THU		(94)
17	FRI		(95)
18	SAT		(96)
19	SUN	HOLIDAY	
20	MON		(97)
21	TUE		(98)
22	WED	Telugu New Year - HOLIDAY	
23	THU	Last Working day for 1 Year	(99)
24	FRI		
25	SAT	Commencement of Practical Examinations for I Year	
26	SUN	HOLIDAY	
27	MON		
28	TUE		
29	WED		
30	THU		
31	FRI		




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DATE	DAY	MONTH: APRIL 2023	NO OF WORKING DAYS
1	SAT		
2	SUN	HOLIDAY	
3	MON		
4	TUE		
5	WED	Commencement of AU Semester Examinations -I Year	
6	THU		
7	FRI		
8	SAT		
9	SUN	HOLIDAY	
10	MON		
11	TUE		
12	WED		
13	THU		
14	FRI	Tamil New Year - HOLIDAY	
15	SAT	Good Friday - HOLIDAY	
16	SUN	HOLIDAY	
17	MON		
18	TUE		
19	WED		
20	THU		
21	FRI		
22	SAT		
23	SUN	HOLIDAY	
24	MON		
25	TUE		
26	WED		
27	THU		
28	FRI		
29	SAT		
30	SUN	HOLIDAY	




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INTERNAL ASSESSMENT SCHEDULE ODD SEMESTER 2022- 23




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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EVEN SEMESTER 2022 - 2023

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Dr. R. PANNEERDHASS, M.E., Ph.D.,
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Anna University Academic Schedule



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VILLUPURAM-605 601.

Date: 28.01.2023

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY, CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

February 2023 - May 2023 (Even Semester - Except Semester II)

UG - PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech. (All Times)	IV, V, VI, VII				
2	B.E. / B.Tech. (All Times)	III, IV, V, VI, VII				
3	B.E. / B.Tech. (All Times)	II, III, IV, V, VI, VII	06.02.2023	12.05.2023**	15.05.2023	28.05.2023
4	M.B.A. (All Times & Part Time)	IV				
5	M.B.A. (All Times & Part Time)	III, IV, V, VI, VII				

RE - OPENING DAY FOR THE NEXT SEMESTER: 31.01.2023 (Monday)

NOTE

- The Theory and Practical Examination schedule will be published in due time. If actual Examinations will be conducted before the theory examinations.
- If necessary, one of classes due to various reasons / circumstances, subject of the department, college may be compensated by conducting classes on Saturdays.

** In order to ensure maximum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be followed
1	17.02.2023	Monday	6	18.03.2023	Monday
2	18.02.2023	Tuesday	7	25.03.2023	Tuesday
3	19.02.2023	Wednesday	8	31.03.2023	Wednesday
4	24.02.2023	Thursday	9	29.04.2023	Thursday
5	11.03.2023	Friday	10	26.05.2023	Friday

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ACADEMIC COURSES



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VILLUPURAM-605 601.

Date: 30.01.2022

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY, CHENNAI - 600 025

REVISED



ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

February 2023 - June 2023 (Even Semester - Except Semester II)

UG / PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1	B.E / B.Tech (Full-Time)	M/V	05.12.2022	02.05.2023	24.04.2023**	15.05.2023	26.05.2023	25.05.2023	05.06.2023
2	B.E / B.Tech (Full-Time)	VI							
3	B.Arch (Full-Time)	M/V, VII							
4	B.E / B.Tech (Part-Time)	M/V	05.12.2022	02.05.2023**		15.05.2023		25.05.2023	
5	M.B.A. Full-Time & Part-Time	M							
6	M.B.A. 3 Yrs-Integrated	M/V, VII							

RE - OPENING DAY FOR THE NEXT SEMESTER: 07.06.2023 (Monday)

* To provide additional classes for Skill Based Courses

NOTE:

- The Theory and Practical Examination schedules will be published in due course. Practical Examinations will be conducted before the theory examinations.
- If necessary, one of classes due to various circumstances / extraordinary activities of the department / college may be compensated by conducting classes on Saturdays.

* In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be followed
1	11.02.2023	Wednesday
2	18.02.2023	Thursday
3	25.02.2023	Wednesday
4	04.03.2023	Thursday
5	11.03.2023	Friday
6	18.03.2023	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be followed
7	25.03.2023	Tuesday
8	01.04.2023	Wednesday
9	08.04.2023	Thursday
10	15.04.2023	Friday
11	22.04.2023	Monday**
12	29.04.2023	Tuesday**

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ACADEMIC COURSES

Dr. R. PANNEERDHASS, M.E., Ph.D.,

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MADAKKUCHIPALAYAM,

KAPPIYAMPILLYUR POST,

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Dr. R.



Date: 04.05.2023



CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

May 2023 - August 2023 (Even Semester)

UG (FT/PT) & PG (FT) Degree Programmes

Sl. No	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech (Full-Time)	II	10.05.2023	07.08.2023**	09.08.2023	21.08.2023
2	B.Arch. (Full-Time)	II				
3	B.E. / B.Tech (Part-Time)	II				
4	M.E. / M.Tech / M.Arch. (FT)	IV				

RE - OPENING DAY FOR THE NEXT SEMESTER: 11.09.2023 (Monday)

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations)
- If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	13.05.2023	Friday	7	24.06.2023	Monday
2	20.05.2023	Monday	8	01.07.2023	Tuesday
3	27.05.2023	Tuesday	9	08.07.2023	Wednesday
4	03.06.2023	Wednesday	10	15.07.2023	Thursday
5	10.06.2023	Thursday	11	22.07.2023	Friday
6	17.06.2023	Friday	12	05.08.2023	Monday

DIRECTOR
ACADEMIC COURSES

DAC - 08



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VILLUPURAM - 605 601.

ACADEMIC CALENDAR [2022-2023][Even Semester FEB 2023-JULY 2023]

DATE	DAY	MONTH: FEBRUARY 2023	NO OF WORKING DAYS
1	WED	INTERNAL ASSESSMENT- II Start I Year	(57)
2	THU	INTERNAL ASSESSMENT- II	(58)
3	FRI	INTERNAL ASSESSMENT- II	(59)
4	SAT	INTERNAL ASSESSMENT- II	(60)
5	SUN	Thai Poosam HOLIDAY	
6	MON	INTERNAL ASSESSMENT II Commencement of Classes for II, III IV Year	1(61)
7	TUE	INTERNAL ASSESSMENT- II END I YEAR	2(62)
8	WED	PROJECT WORK IV Year	3(63)
9	THU	PROJECT WORK IV Year	4(64)
10	FRI		5(65)
11	SAT		6 (66)
12	SUN	HOLIDAY	
13	MON		7 (67)
14	TUE		8 (68)
15	WED		9(69)
16	THU		10(70)
17	FRI	Project First Review	11(71)
18	SAT		12(72)
19	SUN	HOLIDAY	
20	MON		13(73)
21	TUE	Project Work IV Year	14(74)
22	WED	PROJECT WORK IV Year	15(75)
23	THU	PROJECT WORK IV Year	16(76)
24	FRI	Career guidance programme on things to know about the gate exam	17(77)
25	SAT	INTERNAL ASSESSMENT-I Start II, III Year	18(78)
26	SUN	HOLIDAY	
27	MON	INTERNAL ASSESSMENT-I	19(79)
28	TUE	INTERNAL ASSESSMENT-I	20(80)

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VILLUPURAM-605 601.**

DATE	DAY	MONTH:MARCH 2023	NO OF WORKING DAYS
1	WED	INTERNAL ASSESSMENT- I INTERNAL ASSESSMENT- I Start IV Year	21(81)
2	THU	INTERNAL ASSESSMENT- I INTERNAL ASSESSMENT- I End IV Year	22(82)
3	FRI	INTERNAL ASSESSMENT- I END	23(83)
4	SAT	Blood Donation Camp - NSS	24(84)
5	SUN	HOLIDAY	
6	MON		25(85)
7	TUE		26(86)
8	WED	Women's - Day celebration	27(87)
9	THU	MODEL EXAM START I YEAR	28(88)
10	FRI	MODEL EXAM	29(89)
11	SAT	MODEL EXAM	30 (90)
12	SUN	HOLIDAY	
13	MON	MODEL EXAM	31 (91)
14	TUE	MODEL EXAM	32(92)
15	WED	MODEL EXAM END I YEAR	33(93)
16	THU	PROJECT WORK IV Year	34(94)
17	FRI	PROJECT WORK IV Year	35(95)
18	SAT	PROJECT WORK IV Year	36(96)
19	SUN	HOLIDAY	
20	MON		37(97)
21	TUE		38(98)
22	WED	Telugu New Year - HOLIDAY	
23	THU	Last Working day for I Year Internal Assessment - II Start IV Year	39(99)
24	FRI	Internal Assessment - II End IV Year	40
25	SAT	Commencement of Practical Examinations for I Year	41
26	SUN	HOLIDAY	
27	MON		42
28	TUE		43
29	WED		44
30	THU		45
31	FRI	PROJECT THIRD REVIEW	46



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VILLUPURAM-605 601.

DATE	DAY	MONTH/APRIL 2023	NO OF WORKING DAYS
1	SAT	Telugu New Year - HOLIDAY	
2	SUN	HOLIDAY	
3	MON	FOURTH SEMESTER - II Start M. III Year	47
4	TUE	FOURTH SEMESTER - II	48
5	WED	(Announcement of 4th Semester Examinations - I Year)	49
	THU	FOURTH SEMESTER - II	
6	FRI	FOURTH SEMESTER - II	50
7	SAT	PRIVACY DAY/STUDENTS	51
8	SUN	FOURTH SEMESTER - II	
9	MON	FOURTH SEMESTER - II END M. III YEAR	53
10	TUE	HOLIDAY	
11	WED		54
12	THU		55
13	FRI		56
14	SAT	Tamil New Year - HOLIDAY	57
15	SUN	Good Friday - HOLIDAY	
16	MON	HOLIDAY	
17	TUE		58
18	WED		59
19	THU		60
20	FRI		61
21	SAT		62
22	SUN		
23	MON		63
24	TUE	HOLIDAY	
25	WED	Sports-Volley Ball[Boys, Girls]	64
26	THU	Sports-Throw Ball[Boys, Girls]	65
27	FRI	Sports- Karate[Boys]	66
28	SAT	Sports-Cricket[Boys]	67
29	SUN	Sports-Foot Ball[Boys, Girls]	68
30	MON	Sports-Badminton[Boys, Girls]	69
31	TUE	HOLIDAY	




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DATE	DAY	MONTH: MAY 2023	NO OF WORKING DAYS
1	MON	HOLIDAY	
2	TUE		70
3	WED	Ramzan - HOLIDAY	
4	THU	MODEL EXAM START IV YEAR	71
5	FRI	MODEL EXAM END IV YEAR	72
6	SAT		73
7	SUN	HOLIDAY	
8	MON	MODEL EXAM START II, III YEAR	74
9	TUE	MODEL EXAM	75
10	WED	MODEL EXAM Commencement of Classes for I Year (marked in bracket)	76(1)
11	THU	MODEL EXAM	77(2)
12	FRI	MODEL EXAM	78(3)
13	SAT	MODEL EXAM END II, III YEAR	79(4)
14	SUN	HOLIDAY	
15	MON	Commencement of Practical Examinations for II, III, IV Year	80 (5)
16	TUE		81(6)
17	WED		82(7)
18	THU		83(8)
19	FRI		84(9)
20	SAT	Last Working Day for II, III, IV Year	85(10)
21	SUN	HOLIDAY	
22	MON		(11)
23	TUE		(12)
24	WED	SPORTS DAY & ANNUAL DAY CELEBRATION	(13)
25	THU		(14)
26	FRI	Commencement of AU Semester Examinations for II, III, IV -Year	(15)
27	SAT		(16)
28	SUN	HOLIDAY	
29	MON		(17)
30	TUE		(18)
31	WED		(19)



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DATE	DAY	MONTH: JUNE 2023	NO OF WORKING DAYS
1	THUR		(20)
2	FRI		(21)
3	SAT		(22)
4	SUN	HOLIDAY	
5	MON		(23)
6	TUE		(24)
7	WED		(25)
8	THU		(26)
9	FRI		(27)
10	SAT		(28)
11	SUN	HOLIDAY	
12	MON	INTERNAL ASSESSMENT-I Starts (1-year)	(29)
13	TUE	INTERNAL ASSESSMENT-I	(30)
14	WED	INTERNAL ASSESSMENT-I	(31)
15	THU	INTERNAL ASSESSMENT-I	(32)
16	FRI	INTERNAL ASSESSMENT-I	(33)
17	SAT	INTERNAL ASSESSMENT-I	(34)
18	SUN	HOLIDAY	
19	MON	INTERNAL ASSESSMENT-I END 1 YEAR	(35)
20	TUE		(36)
21	WED	YOGA - DAY	(37)
22	THU		(38)
23	FRI		(39)
24	SAT		(38)
25	SUN	HOLIDAY	
26	MON		(40)
27	TUE		(41)
28	WED		(42)
29	THU		(43)
30	FRI		(44)



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VILLUPURAM-605 601.

DATE	DAY	MONTH:JULY 2023	NO OF WORKING DAYS
1	SAT		(45)
2	SUN	HOLIDAY	
3	MON		(46)
4	TUE		(47)
5	WED		(48)
6	THU		(49)
7	FRI		(50)
8	SAT		(51)
9	SUN	HOLIDAY	
10	MON	INTERNAL ASSESSMENT-II Starts (I-year)	(52)
11	TUE	INTERNAL ASSESSMENT-II	(53)
12	WED	INTERNAL ASSESSMENT-II	(54)
13	THU	INTERNAL ASSESSMENT-II	(55)
14	FRI	INTERNAL ASSESSMENT-II	(56)
15	SAT	INTERNAL ASSESSMENT-II	(57)
16	SUN	HOLIDAY	
17	MON	INTERNAL ASSESSMENT-II END I YEAR	(58)
18	TUE		(59)
19	WED		(60)
20	THU		(61)
21	FRI		(62)
22	SAT		(63)
23	SUN	HOLIDAY	
24	MON	MODEL EXAM START I YEAR	(64)
25	TUE	MODEL EXAM	(65)
26	WED	MODEL EXAM	(66)
27	THU	MODEL EXAM	(67)
28	FRI	MODEL EXAM	(68)
29	SAT	MODEL EXAM	(69)
30	SUN	HOLIDAY	
31	MON	MODEL EXAM END I YEAR	(70)



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DATE	DAY	MONTH: AUGUST 2023	NO OF WORKING DAYS
1	TUE		(71)
2	WED		(72)
3	THU		(73)
4	FRI		(74)
5	SAT		(75)
6	SUN	HOLIDAY	
7	MON	Last working day for first year	(76)
8	TUE	Commencement of Practical Examination for I Year	
9	WED		
10	THU		
11	FRI		
12	SAT		
13	SUN	HOLIDAY	
14	MON		
15	TUE		
16	WED		
17	THU		
18	FRI		
19	SAT		
20	SUN		
21	MON	Commencement of AU semester Examinations for I -Year	
22	TUE		
23	WED		
24	THU		
25	FRI		
26	SAT	HOLIDAY	
27	SUN	HOLIDAY	
28	MON		
29	TUE		
30	WED		



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605601, Tamilnadu.

INTERNAL ASSESSMENT SCHEDULE EVEN SEMESTER 2022- 23




Dr. R. PANNEERDHAS, M.E., Ph.D.,
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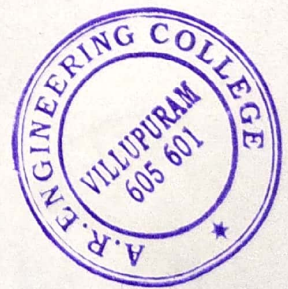
OFFICE OF THE CONTROLLER OF EXAMINATION

February 2023 – May 2023 - (SEMESTER – VI,VIII,X)

FOR ALL UG/PG(MBA-Integrated) PROGRAMMES. R 2017

Report No	Report Period	Test Period	Report Entry Period
I	06-02-2023 – 24-02-2023		15-03-2023 – 21-03-2023
II	25-02-2023 – 20-03-2023	14-03-2023 – 20-03-2023	21-03-2023 – 28-03-2023
III	21-03-2023 – 17-04-2023	11-04-2023 – 17-04-2023	18-04-2023 – 25-04-2023
IV	18-04-2023 – 12-05-2023	08-05-2023 – 12-05-2023	12-05-2023 – 15-05-2023

Saturdays may be included as working days to make good the Shortages, if any.



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A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

CONTROLLER OF EXAMINATIONS

ANNA UNIVERSITY:: CHENNAI 600 025

OFFICE OF THE CONTROLLER OF EXAMINATION

February 2023 – May 2023 - (SEMESTER - IV) – R-2021

FOR ALL UG /PG(MBA) PROGRAMMES

Report No	Report Period	Test Period	Report Entry Period
25-02-2023 – 21-03-2023	15-03-2023 – 21-03-2023	21-03-2023 – 28-03-2023	
22-03-2023 – 12-05-2023	08-05-2023 – 12-05-2023	12-05-2023 – 15-05-2023	

Saturdays may be included as working days to make good the Shortages, if any.



CONTROLLER OF EXAMINATIONS

Dr.R.PANNEERDHASS,M.E.,Ph.D.,
PRINCIPAL
A.R. ENGINEERING COLLEGE
VADAKUCHIPALAYAM,
KAPPIYAMPULIYUR POST,
VILLUPURAM-605 601.

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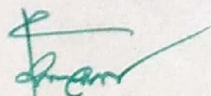


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SUBJECT ALLOCATION




Dr. R. PANNEERDHASS, M.E., Ph.D.,
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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR (EVEN SEM)

(2022- 2023)

CIR. No.: AREC/MECH/CIR/01

Date: 27.01.2023

It is to inform that subject allocation meeting for the forth coming semester FEB 2023 - MAY 2023 will be held on 28.01.2023 at 10.30 am in the Department of Mechanical. All the faculty members are requested to attend the meeting without fail. The list of available subjects for the semester and the subject preferences form are enclosed with this circular. All the staff members are requested to fill up the preferences form enclosed.

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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT DETAILS EVEN SEMESTER 2022-2023

YEAR / SEM	REG	THEORY / LABORATORY	Subject Code	Subject Name
IV/VIII	2017	THEORY	MG8591	Principles of Management
		THEORY	IE8693	Production Planning and Control (PROFESSIONAL Elective IV)
		PROJECT	ME8811	Project Work
III/VI	2017	THEORY	ME8651	Design of Transmission Systems
		THEORY	ME8691	Computer Aided Design and Manufacturing
		THEORY	ME8693	Heat and Mass Transfer
		THEORY	ME8692	Finite Element Analysis
		THEORY	ME8694	Hydraulics and Pneumatics
		THEORY	ME8091	Automobile engineering
		LAB	ME8681	CAD / CAM Laboratory
		PROJECT	ME8682	Design and Fabrication Project
		LAB	HS8581	Professional Communication
II/IV	2021	THEORY	ME3491	Theory of machines
		THEORY	ME3451	Thermal engineering
		THEORY	ME3492	Hydraulics and Pneumatics
		THEORY	ME3493	Manufacturing Technology
		THEORY	CE3491	Strength of Materials
		THEORY	GE3451	Environmental sciences and sustainability
		LAB	CE3481	Strength of Materials and Fluid Mechanics Laboratory
		LAB	ME3461	Thermal engineering Labotatory

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DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT WILLING FOR EVEN SEMESTER (2022-2023)



S.No	Name of the Staff / Designation	FINAL YEAR			THIRD YEAR								SECOND YEAR								SIGN	
		MGR501 POM	IE8093 PPC	MER811 PROJECT	MER851 DTS	MER801 CAD	MER803 HMT	MER802 FEA	MER804 H&P	MER801 AE	MER801 CAD/CAM LAB	MER802 D&P	HSR581 PC	MEL491 TOM	MEL451 TE	MEL492 H&P	MEL493 MT	CEL491 SOM	CEL451 EVS	MEL461 TELAB		CEL481 SOM&POM LAB
1	Dr.R.ANBHAZHAGAN/HOD						✓															
2	Dr.K.KAMAL BABU/PROFESSOR								✓													
3	Mr.S.RAMAMOORTHY/ ASSISTANT PROFESSOR			✓																		
4	Mr.K.SAKTHIVEL / ASSISTANT PROFESSOR													✓								
5	Mr.R.MANIVANNAN / ASSISTANT PROFESSOR														✓							
6	Mr.D.MANIKANDAN/ ASSISTANT PROFESSOR															✓						
7	Mr.D.BARANI KUMAR/ ASSISTANT PROFESSOR		✓				✓										✓					
8	Mr.R.VENKATESH / ASSISTANT PROFESSOR				✓																	
9	Mr.K.SIVASUBRAMANIAN/ASSIS TANT PROFESSOR			✓																		
10	Mr.A.ARULKUMAR / ASSISTANT PROFESSOR																					
11	G.GANAPATHY/ ASSISTANT PROFESSOR																	✓				

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DEPARTMENT OF MECHANICAL ENGINEERING Faculty Work Load for Even Semester (2022-2023)

S.No	Name of the Staff / Designation	Subject(s) Assigned			WORK LOAD
		Year / Dept	Subject Code	Subject Name	Theory+Lab
1	Dr.R.PANNEERDHASS	PRINCIPAL			
2	Dr.RANBAZHAGAN/HOD	III / MECH	ME 8693	HEAT AND MASS TRANSFER	1+0
3	Dr.K.KAMAL BABU/PROFESSOR	III / MECH	ME 8694	HYDRAULICS AND PNEUMATICS	1+0
2	Mr.S.RAMAMOORTHY / ASSISTANT PROFESSOR	IV / MECH	ME8692	FINITE ELEMENT ANALYSIS	1+1
		IV / MECH	ME8811	PROJECT WORK	
3	Mr.K.SAKTHIVEL / ASSISTANT PROFESSOR	II / MECH	ME 3451	THERMAL ENGINEERING	1+1
		II / MECH	ME3461	THERMAL ENGINEERING LABORATORY	
4	Mr.R.MANIVANNAN / ASSISTANT PROFESSOR	IV / MECH	MG 8591	PRINCIPLES OF MANAGEMENT	2+0
		II / MECH	ME3492	HYDRAULICS AND PNEUMATICS	
5	Mr.D.MANIKANDAN / ASSISTANT PROFESSOR	II / MECH	ME3493	MANUFACTURING TECHNOLOGY	1+1
		III / MECH	ME 8682	DESIGN AND FABRICATION PROJECT	
6	Mr.D.BARANI KUMAR / ASSISTANT PROFESSOR	IV / MECH	IE 8693	PRODUCTION PLANNING AND CONTROL	2+0
		III / MECH	ME 8691	COMPUTER AIDED DESIGN AND MANUFACTURING	
7	Mr.R.VENKATESH / ASSISTANT PROFESSOR	II / MECH	ME 3491	THEORY OF MACHINES	1+0
8	Mr.K.SIVASUBRAMANIAN / ASSISTANT PROFESSOR	III / MECH	ME 8651	DESIGN OF TRANSMISSION SYSTEMS	1+1
		III / MECH	ME 8681	CAD/CAM LAB	
9	Mr.A.ARULKUMAR / ASSISTANT PROFESSOR	II / MECH	CE3491	STRENGTH OF MATERIALS	1+1
		II / MECH	CE3481	STRENGTH OF MATERIALS AND FLUID MACHINERY LABORATORY	
10	G GANAPATHY / ASSISTANT PROFESSOR	II / MECH	GE3451	ENVIRONMENTAL SCIENCES AND SUSTAINABILITY	1

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Department of Mechanical Engineering

Master Time Table for Even Sem (2022-2023)

PERIOD	YEAR	1 9.30-10.20	2 10.20-11.10	3 11.25-12.15	4 12.15-1.00	5 1.35-2.20	6 2.20-3.05	7 3.15-4.00	8 4.00-4.45
Day/Time		TE	TE	H&P	H&P	MT	MT	TE	EVS
Monday	II	CAD	CAD	H&P	H&P	HMT	HMT	DTS	DTS
	III	POM	POM	PPC	PPC	POM	POM	LIBRARY	PROJECT WORK
	IV	EVS	EVS	SOM	SOM	MT	MT	TE	LIBRARY
Tuesday	II	HMT	HMT	CAD	CAD	HMT	H&P	CAD	LIBRARY
	III	PPC	PPC	POM	POM	PPC	PPC	PROJECT WORK	PROJECT WORK
	IV	TOM	TOM	SOM	SOM	EVS	SOM/FM LAB	SOM/FM LAB	DTS
Wednesday	II	DTS	DTS	D&F PROJECT	D&F PROJECT	FEA	FEA	PROJECT	PROJECT
	III	PROJECT	PROJECT	PROJECT	PROJECT	TE	TE	THERMAL ALB	THERMAL ALB
	IV	MT	MT	TOM	TOM	CAD	CAD/CAM LAB	CAD/CAM LAB	PROJECT
Thursday	II	FEA	FEA	PROJECT	PROJECT	PROJECT	PROJECT	TOM	TOM
	III	SOM	SOM	TE	TE	H&P	EVS	COMM LAB	COMM LAB
	IV	HMT	HMT	FEA	FEA	H&P	COMM LAB	PROJECT	PROJECT
Friday	II	PROJECT	PROJECT	PROJECT	PROJECT	TOM	EVS	PET	PET
	III	H&P	H&P	SOM	SOM	HMT	DTS	PET	PET
	IV	H&P	H&P	FEA	FEA	HMT	DTS	PET	PET
Saturday	II	H&P	H&P	FEA	FEA	HMT	DTS	PET	PET
	III	H&P	H&P	FEA	FEA	HMT	DTS	PET	PET

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DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE - EVEN SEMESTER (2022-2023)

YEAR/SEM: II / IV		1		2		3		4		5		6		7		8	
PERIOD		9.30 - 10.20	10.20 - 11.10			11.25 - 12.15	12.15 - 1.00			1.35 - 2.20	2.20 - 3.05			3.15 - 4.00	4.00 - 4.45		
MONDAY		TE				HP				MT				TE		EVS	
TUESDAY		EVS				SOM				MT	HP			TE		LIBRARY	
WEDNESDAY		TOM				SOM				EVS	SOM & FMM			SOM & FMM LAB			
THURSDAY		MT				TOM				TE	THERMAL LAB			THERMAL LAB			
FRIDAY		SOM				TE				HP	EVS			TOM			
SATURDAY		HP				SOM	MT			TOM	EVS			PET			

CLASS ADVISOR : D.MANIKANDAN

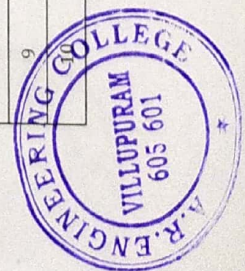
THEORY

Sl.No.	Sub. Code	Subject Title	Staff Name	No. of Hrs
1	ME3491	THEORY OF MACHINES	Mr.R.VENKATESH	7
2	ME3451	THERMAL ENGINEERING	Mr.K.SAKTHIVEL	6
3	ME3492	HYDRAULICS AND PNEUMATICS	Dr.R.MANIVANNAN	6
4	ME3493	MANUFACTURING TECHNOLOGY	Mr.D.MANIKANDAN	6
5	CE3491	STRENGTH OF MATERIALS	Mr.A.ARULKUMAR	7
6	GE3451	ENVIRONMENTAL SCIENCES AND SUSTAINABILITY	Mr.G.GANAPATHY	6

PRACTICAL

7	CE3481	STRENGTH OF MATERIALS AND FLUID MACHINERY LABORATORY	Mr.A.ARULKUMAR	3
8	ME3461	THERMAL ENGINEERING LABORATORY	Mr.K.SAKTHIVEL	3
9		AREC LIBRARY	Mrs.M.R.VANAJA	1
		PHYSICAL EDUCATION TRAINING	Mr.S.KUMARESH	2

[Signature]
Dr.R.PANNEERDHASS, M.E., Ph.D.
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DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE - EVEN SEMESTER (2022-2023)

YEAR/SEM: III / VI			CLASS ADVISOR : Mr.K.SAKTHIVEL									
PERIOD	1	2	3		4	5		6	7			8
Day/Time	9.30 - 10.20	10.20-11.10	11.25-12.15	12.15-1.00		1.35 - 2.20	2.20 - 3.05		3.15-4.00	4.00-4.45		
MONDAY	CAD		HP			HMT				DTS		
TUESDAY	HMT		CAD			HMT	HP		CAD	LIBRARY		
WEDNESDAY	DTS		D & F PROJECT				FEA			DTS		
THURSDAY	FEA		HMT	DTS		CAD	CAD/CAM LAB		CAD/CAM LAB			
FRIDAY	HMT	FEA	FEA			HP	COMM LAB		COMMUNICATION LAB			
SATURDAY	HP		FEA			HMT	DTS		PET			

THEORY

Sl.No.	Sub. Code	Subject Title	Staff Name	No. of Hrs
1	ME 8651	DESIGN OF TRANSMISSION SYSTEMS	Mr.K.SIVASUBRAMANIAN	8
2	ME8692	FINITE ELEMENT ANALYSIS	Mr.S.RAMAMOORTHY	9
3	ME8693	HEAT AND MASS TRANSFER	Mr.RANBAZHAGAN	8
4	ME8691	COMPUTER AIDED DESIGN AND MANUFACTURING	Mr.D.BARANI KUMAR	6
5	ME8694	HYDRAULIC AND PNEUMATICS	Mr.K.KAMAL BABU	6

PRACTICAL

7	ME8681	CAD / CAM LAB	Mr.K.SIVASUBRAMANIAN	3
8	ME8682	DESIGN AND FABRICATION PROJECT	Mr.D.MANIKANDAN	2
9	HS8581	PROFESSIONAL COMMUNICATION LAB	Dr.V.GIRJA	3
10		AREC LIBRARY	Mrs.M.R.VANAJA	1
11		PHYSICAL EDUCATION TRAINING	Mr.S.KUMARESH	2



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DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE - EVEN SEMESTER (2022-2023)

YEAR/SEM: IV / VIII

PERIOD		1	2	3		4	5		6	7	
Day/Time		9.30 - 10.20	10.20-11.10	11.25-12.15	12.15-1.00	PPC	1.35 - 2.20	2.20 - 3.05	POM	POM	LIBRARY
MONDAY		POM									
TUESDAY		PPC		PPC		PPC		PPC		PPC	

CLASS ADVISOR : Mr. R. VENKATESH

THEORY

SL.No.	Sub. Code	Subject Title	Staff Name	No. of Hrs
1	IE8693	PRODUCTION PLANNING & CONTROL	Mr.D.BARANI KUMAR	6
2	MG8591	PRINCIPLES OF MANAGEMENT	Mr.R.MANIVANNAN	6

PRACTICAL

3	ME 8811	PROJECT WORK	Mr.S.RAMAMOORTHY	1
		AREC LIBRARY	Mrs.M.R.VANAJA	

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DEPARTMENT OF MECHANICAL ENGINEERING

REF : AREC / MECH/01

Date :04.02.2023

CIRCULAR

It is planned to conduct the course committee meeting for the course **ME8692 - FINITE ELEMENT ANALYSIS** meeting will be held on 07.02.2023 at MECH Staff room 1.15 Pm. The following staff members those who are handling the above course are requested to attend the meeting in time without fail.

CONVENER :

DR.R.ANBAZHAGAN, AP/ MECH -

COMMITTEE MEMBERS :

1. S.RAMAMOORTHY, AP/MECH
2. MR. MANIKANDAN . D AP/ MECH -

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DEPARTMENT OF MECHANICAL ENGINEERING

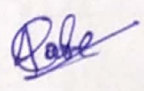
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Date :08.02.2023

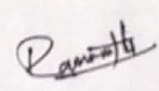
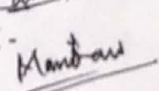
MINUTES OF MEETING

The course committee meeting for the course **ME8692 - FINITE ELEMENT ANALYSIS** was conducted on 07.02.2023 at MECH Staff room at 1.10 pm. The following staff members were present.

CONVENER :

DR.R.ANBAZHAGAN, AP/ MECH - 

COMMITTEE MEMBERS :

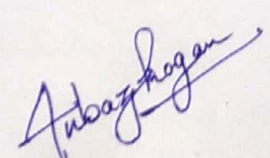
3. S.RAMAMOORTHY, AP/MECH 
4. MR. MANIKANDAN . D AP/ MECH - 

The following discussions are made :

1. The staff members are instructed to complete first and second units on or before 03.03.2023.
2. The staff members are instructed to conduct daily test in their class hours itself.
3. Counseling to be done for those students who are obtained less than 50% of marks in the class test to improve their performance in forthcoming tests.
4. Staff are instructed to check the class notes of the students regularly.

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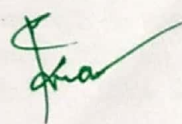
COURSE PLAN

INDEX

EVEN SEMESTER 2022- 2023

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5	INTERNAL ASSESSMENT MARK LIST	11
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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE PLAN

ACADEMIC YEAR 2022-2023

EVEN SEMESTER

NAME OF THE FACULTY: S. RAMAMOORTHY

SUBJECT CODE & NAME: ME8692 & FINITE ELEMENT ANALYSIS

CREDITS: 03

L-T-P-C : 3-0-0-3

YEAR/SEMESTER: III/VI

DEGREE/BRANCH: B.E./MECHANICAL ENGINEERING

SYLLABUS

ME8692 FINITE ELEMENT ANALYSIS

L-T-P-C

3-0-0-3

OBJECTIVES:

- To introduce the concepts of Mathematical Modeling of Engineering Problems.
- To appreciate the use of FEM to a range of Engineering Problems.

UNIT I

INTRODUCTION

Historical Background – Mathematical Modeling of field problems in Engineering – Governing Equations – Discrete and continuous models – Boundary, Initial and Eigen Value problems – Weighted Residual Methods – Variational Formulation of Boundary Value Problems – Ritz Technique – Basic concepts of the Finite Element Method.

9

UNIT II

ONE-DIMENSIONAL PROBLEMS

One Dimensional Second Order Equations – Discretization – Element types- Linear and Higher order Elements – Derivation of Shape functions and Stiffness matrices and force vectors- Assembly of Matrices - Solution of problems from solid mechanics and heat transfer. Longitudinal vibration frequencies and mode shapes. Fourth Order Beam Equation – Transverse deflections and Natural frequencies of beams.

9

UNIT III

TWO DIMENSIONAL SCALAR VARIABLE PROBLEMS

Second Order 2D Equations involving Scalar Variable Functions – Variational formulation – Finite Element formulation – Triangular elements – Shape functions and element matrices and vectors. Application to Field Problems - Thermal problems – Torsion of Non circular shafts – Quadrilateral elements – Higher Order Elements.

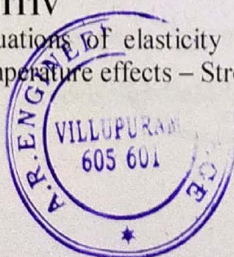
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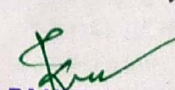
UNIT IV

TWO DIMENSIONAL VECTOR VARIABLE PROBLEMS

Equations of elasticity – Plane stress, plane strain and axisymmetric problems – Body forces and temperature effects – Stress calculations - Plate and shell elements.

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DEPARTMENT OF MECHANICAL ENGINEERING

9

UNIT V

ISOPARAMETRIC FORMULATION

Natural co-ordinate systems – Isoparametric elements – Shape functions for iso parametric elements – One and two dimensions – Serendipity elements – Numerical integration and application to plane stress problems - Matrix solution techniques – Solutions Techniques to Dynamic problems – Introduction to Analysis Software.

TOTAL PERIODS:45

COURSE OUTCOME:

CO 1 Summarize the basics of finite element formulation.

CO 2 Apply finite element formulations to solve one dimensional Problems.

CO 3 Apply finite element formulations to solve two dimensional scalar Problems

CO 4 Apply finite element method to solve two dimensional Vector problems

CO 5 Apply finite element method to solve problems on iso parametric element and dynamic Problems.

TEXT BOOKS:

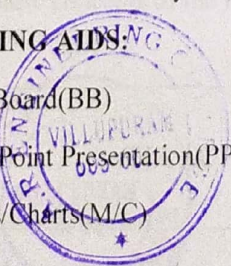
1. Reddy, J.N., "An Introduction to the Finite Element Method", 3rd Edition, Tata McGraw-Hill, 2005
2. Seshu, P, "Text Book of Finite Element Analysis", Prentice-Hall of India Pvt. Ltd., New Delhi, 2007.

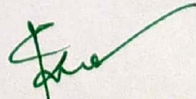
REFERENCES:

1. Bhatti Asghar M, "Fundamental Finite Element Analysis and Applications", John Wiley & Sons, 2005 (Indian Reprint 2013)*
2. Chandrupatla & Belagundu, "Introduction to Finite Elements in Engineering", 3rd Edition, Prentice Hall College Div, 1990
3. Logan, D.L., "A first course in Finite Element Method", Thomson Asia Pvt. Ltd., 2002
4. Rao, S.S., "The Finite Element Method in Engineering", 3rd Edition, Butterworth Heinemann, 2004
5. Robert D. Cook, David S. Malkus, Michael E. Plesha, Robert J. Witt, "Concepts and Applications of Finite Element Analysis", 4th Edition, Wiley Student Edition, 2002.

TEACHING AIDS:

1. Black Board (BB)
2. Power Point Presentation (PPT)
3. Models/Charts (M/C)




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TEACHING METHODOLOGY:

1. Lecture(L)
2. Seminar(S)
3. Guest Lecture(GL)

LESSON PLAN

UNIT I INTRODUCTION					Target Periods:10
S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	Historical Background	1	1	Logan, D.L., first course in Finite Element Method", Thomson As Pvt. Ltd.	PPT/L
2	Mathematical Modeling of field problems in Engineering	1	2		BB/L
3	Governing Equations	1	1		BB/L
4	Discrete and continuous models	1	1		BB/L
5	Boundary, Initial and Eigen Value problems	1	1		BB/L
6	Weighted Residual Methods	1	1		PPT/L
7	Variational Formulation of Boundary Value Problems	1	1		BB/L
8	Ritz Technique	1	1		BB/L
9	Basic concepts of the Finite Element Method.	1	1		BB/L
TOTAL		9	10		



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UNIT II ONE-DIMENSIONAL PROBLEMS					Target Periods:12
S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	One Dimensional Second Order Equations	1	2	Logan, D.L., first course Finite Ele Method", Tho Asia Pvt. Ltd.,	BB/L
2	Discretization	1	1		BB/L
3	Element types	1	1		BB/L
4	Linear and Higher order Elements	1	1		BB/L
5	Derivation of Shape functions and Stiffness matrices and force vectors	1	1		PPT/L
6	Assembly of Matrices - Solution of prob from solid mechanics and heat transfer.	1	2		PPT/L
7	Longitudinal vibration frequencies and mode shapes.	1	1		PPT/L
8	Fourth Order Beam Equation	1	1		BB/L
9	Transverse deflections and Natural frequencies of beams.	1	2		BB/L
TOTAL		9	12		



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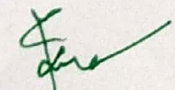
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UNIT III TWO DIMENSIONAL SCALAR VARIABLE PROBLEMS					Target Periods:11
S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	Second Order 2D Equations involving Scalar Variable Functions	1	2	Text book	PPT/L
2	Variational formulation	1	1	Text book	BB/L
3	Finite Element formulation	1	1	Text book	BB/L
4	Triangular elements	1	1	Text book	BB/L
5	Shape functions and element matrices vectors	1	1	Text book	PPT/L
6	Application to Field Problems	1	1	Text book	BB/L
7	Thermal problems – Torsion of Non circular shafts	1	2	Text book	PPT/L
8	Quadrilateral elements	1	1	Text book	BB/L
9	Higher Order Elements.	1	1	Text book	BB/L
TOTAL		9	11		




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UNIT IV TWO DIMENSIONAL VECTOR VARIABLE PROBLEMS					Target Periods:10
S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	Equations of elasticity	1	1	Text book	PPT/L
2	Plane stress	1	1	Text book	BB/L
3	Plane strain	1	1	Text book	BB/L
4	Axisymmetric problems	1	1	Text book	PPT/L
5	Body forces and	1	1	Text book	BB/L
6	Temperature effects	1	2	Text book	PPT/L
7	Stress calculations	1	1	Text book	BB/L
8	Plate element	1	1	Text book	BB/L
9	Shell elements.	1	1	Text book	BB/L
TOTAL		9	10		



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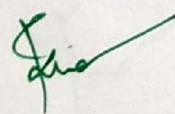
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UNIT V ISOPARAMETRIC FORMULATION					Target Periods:12
S.NO	Topics To Be Covered	Hours as per syllabus	Estimated hours	References	Teaching Aids/ Methodology
1	Natural co-ordinate systems	1	1	Text book	PPT/L
2	Isoparametric elements	1	1	Text book	BB/L
3	Shape functions for Isoparametric elements	1	2	Text book	PPT/L
4	One and two dimensions Elements	1	1	Text book	BB/L
5	Serendipity elements	1	2	Text book	BB/L
6	Numerical integration and	1	1	Text book	BB/L
7	Application to plane stress problems	1	1	Text book	BB/L
8	Matrix solution techniques	1	1	Text book	PPT/L
9	Solutions Techniques to Dynamic problems – Introduction to Analysis Software.	1	2	Text book	PPT/L
TOTAL		9	12		




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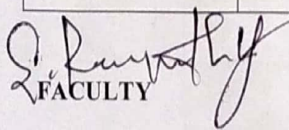
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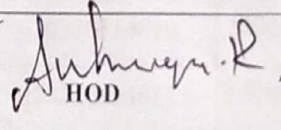
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ASSIGNMENT DETAILS:

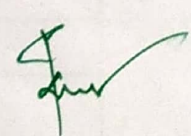
S.NO	ASSIGNMENT TITLE
1	Linear and Higher order Elements
2	Application to plane stress problems
3	Axisymmetric problems


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III-YEAR STUDENTS NAME LIST

S.NO	REG.NO	NAME
1	420320114001	ABINASH H
2	420320114002	ELANGO S
3	420320114005	NISHANTH S
4	420320114006	PHILOMIN DASS G
5	420320114007	RAJADURAI K
6	420320114008	ROHITH A
7	420320114009	SANJAI K
8	420320114010	SURENDIRAN S
9	420320114011	UDHAYASURYA S
10	420320114012	VEERAPPAN T
11	420320114301	BALAJI S
12	420320114302	DHILIPRAJ R
13	420320114303	KAMALESHWARAN K
14	420320114304	LUKE V
15	420320114305	PRASANNA M
16	420320114306	RAGUL P
17	420320114307	ROBINS R
18	420320114308	SARGUNAPANDIYAN K
19	420320114309	SELVAMANI S
20	420320114310	SATHIASEELAN D
21	420320114701	PRAVEEN KUMAR P



R. Anheer

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INTERNAL ASSESSMENT MARK LIST

S.NO	REG.NO	NAME	IA-I	IA-II
1	420320114001	ABINASH H	60	65
2	420320114002	ELANGO S	58	68
3	420320114005	NISHANTH S	62	70
4	420320114006	PHILOMIN DASS G	55	58
5	420320114007	RAJADURAI K	59	64
6	420320114008	ROHITH A	70	55
7	420320114009	SANJAI K	62	65
8	420320114010	SURENDIRAN S	62	64
9	420320114011	UDHAYASURYA S	65	60
10	420320114012	VEERAPPAN T	58	55
11	420320114301	BALAJI S	65	65
12	420320114302	DHILIPRAJ R	68	66
13	420320114303	KAMALESHWARAN K	70	58
14	420320114304	LUKE V	55	58
15	420320114305	PRASANNA M	65	66
16	420320114306	RAGUL P	70	72
17	420320114307	ROBINS R	62	60
18	420320114308	SARGUNAPANDIYAN K	58	55
	420320114309	SELVAMANI S	56	54
	420320114310	SATHIASEELAN D	53	65
	420320114701	PRAVEEN KUMAR P	68	59



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Jan
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CO - PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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AVERAGE	2.8	3	3	3	0	0	0	0	0	0	0	3	2	2.2	2.2

R. Anubhagar



Dr. R. Panneerdhass

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DEPARTMENT OF MECHANICAL ENGINEERING INTERNAL ASSESSMENT EXAM-I (06-03-2023 TO 13-03-2023)

TIME TABLE

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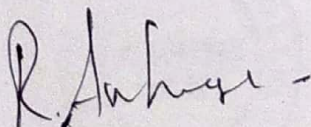
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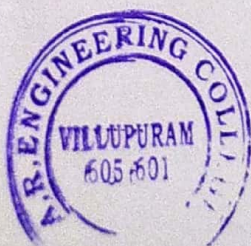
SECOND YEAR

DATE	SUBJECT CODE	SUBJECT NAME
25.02.2023	GE3451	ENVIRONMENTAL SCIENCES AND SUSTAINABILITY
27.02.2023	ME3491	THEORY OF MACHINES
28.02.2023	ME3493	MANUFACTURING TECHNOLOGY
01.03.2023	ME3492	HYDRAULICS AND PNEUMATICS
02.03.2023	CE3491	STRENGTH OF MATERIALS
03.03.2023	ME3451	THERMAL ENGINEERING

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
25.02.2023	ME8693	HEAT AND MASS TRANSFER
27.02.2023	ME 8651	DESIGN OF TRANSMISSION SYSTEMS
28.02.2023	ME8692	FINITE ELEMENT ANALYSIS
01.03.2023	ME8694	HYDRAULIC AND PNEUMATICS
02.03.2023	ME8691	COMPUTER AIDED DESIGN AND MANUFACTURING


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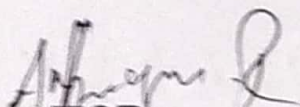
DEPARTMENT OF MECHANICAL ENGINEERING
INTERNAL ASSESSMENT EXAM-I (01-03-2023 TO 02-03-2023)
TIME TABLE

MAX.MARKS:100

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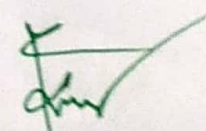
FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
01.03.2023	IE 8693	PRODUCTION PLANNING AND CONTROL
02.03.2023	MG8591	PRINCIPLES OF MANAGEMENT


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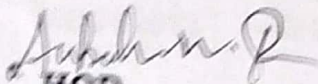
DEPARTMENT OF MECHANICAL ENGINEERING
INTERNAL ASSESSMENT EXAM-II (23-03-2023 TO 24-03-2023)
TIME TABLE

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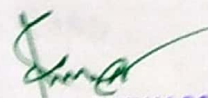
FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
23.03.2023	IE 8693	PRODUCTION PLANNING AND CONTROL
24.03.2023	MG8591	PRINCIPLES OF MANAGEMENT


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TIME TABLE

MAX.MARKS:100

TIME: 10 AM TO 1 PM

SECOND YEAR

DATE	SUBJECT CODE	SUBJECT NAME
03.04.2023	GE3451	ENVIRONMENTAL SCIENCES AND SUSTAINABILITY
04.04.2023	ME3491	THEORY OF MACHINES
05.04.2023	ME3493	MANUFACTURING TECHNOLOGY
06.04.2023	ME3492	HYDRAULICS AND PNEUMATICS
07.04.2023	CE3491	STRENGTH OF MATERIALS
08.04.2023	ME3451	THERMAL ENGINEERING

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
03.04.2023	ME8693	HEAT AND MASS TRANSFER
04.04.2023	ME 8651	DESIGN OF TRANSMISSION SYSTEMS
05.04.2023	ME8692	FINITE ELEMENT ANALYSIS
06.04.2023	ME8694	HYDRAULIC AND PNEUMATICS
07.04.2023	ME8691	COMPUTER AIDED DESIGN AND MANUFACTURING

Anusha R
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DEPARTMENT OF MECHANICAL ENGINEERING MODEL EXAM-I (04-05-2023 TO 05-05-2023)

TIME TABLE

MAX. MARKS: 100

TIME: 10 AM TO 1 PM

FINAL YEAR

DATE	SUBJECT CODE	SUBJECT NAME
04.05.2023	IE 8693	PRODUCTION PLANNING AND CONTROL
05.05.2023	MG8591	PRINCIPLES OF MANAGEMENT

Anushay
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MAX.MARKS:100

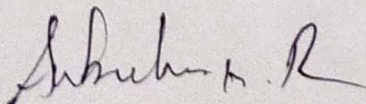
TIME: 10 AM TO 1 PM

SECOND YEAR

DATE	SUBJECT CODE	SUBJECT NAME
08.05.2023	GE3451	ENVIRONMENTAL SCIENCES AND SUSTAINABILITY
09.05.2023	ME3491	THEORY OF MACHINES
10.05.2023	ME3493	MANUFACTURING TECHNOLOGY
11.05.2023	ME3492	HYDRAULICS AND PNEUMATICS
12.05.2023	CE3491	STRENGTH OF MATERIALS
13.05.2023	ME3451	THERMAL ENGINEERING

THIRD YEAR

DATE	SUBJECT CODE	SUBJECT NAME
08.05.2023	ME8693	HEAT AND MASS TRANSFER
09.05.2023	ME 8651	DESIGN OF TRANSMISSION SYSTEMS
10.05.2023	ME8692	FINITE ELEMENT ANALYSIS
11.05.2023	ME8694	HYDRAULIC AND PNEUMATICS
12.05.2023	ME8691	COMPUTER AIDED DESIGN AND MANUFACTURING


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Roll No.

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(Approved by AICTE, New Delhi Affiliated to Anna University, Chennai)
Department of Mechanical Engineering

MECHANICAL

INTERNAL ASSESSMENT TEST-I

PROGRAMME & BRANCH	B.E & MECHANICAL ENGINEERING	SEMESTER	VI	
COURSE CODE & NAME	ME 8692 & FINITE ELEMENT ANALYSIS		DATE	09.03.2023
MAXIMUM MARKS	100	DURATION AND TIME	03 HRS & 10 AM TO 1 PM	

PART- A ANSWER ALL QUESTIONS

(10 x 2 = 20 Marks)

Q. No	Questions	BL	CO	Mark
1	Define finite element analysis?	BL1	1	2
2	Explain the discretization and assembly?	BL4	1	2
3	Define constitutive law	BL1	1	2
4	List out FEM software packages	BL1	1	2
5	State the properties of a stiffness matrix.	BL2	2	2
6	What is difference between the Global co-ordinates and natural Co-ordinates.	BL2	2	2
7	Write the general expression for element stiffness matrix.	BL1	2	2
8	List out the types of loading acting on a structure.	BL1	2	2
9	What are the difference between bar element & truss element.	BL2	2	2
10	Define shape function and write its properties.	BL1	2	2

PART- B ANSWER ANY ONE QUESTION

(05 x 13 = 65 Marks)

Q. No	Questions	BL	CO	Mark
11 (a)	The following differential equation of a physical phenomenon given by $\frac{d^2 y}{dx^2} + 500x^2 = 0,$ With limits $0 \leq x \leq 1$ Trial function, $y = a_1(x-x^3) + a_2(x-x^5)$, Boundary conditions are, $y(0)=0$, $y(1)=1$. Calculate the value of the parameter a_1 & a_2 by the following methods: (i) Point collocation; (ii) Sub domain collocation; (iii) Least squares; (iv) Galerkins method.	BL 4	1	13
OR				
11 (b) (i)	Explain the steps involved in the finite element formulation.	BL 4	1	08
(ii)	Write the historical background of FEA	BL1	1	05
12 (a)	Find the Temperature distribution in a pin fin use Galerkins method. Consider a 1 mm diameter.50 mm long aluminum pin-fin as shown in Figure used to enhance the heat transfer from a surface wall maintained at 300°C . Use $k=200\text{W/m}^\circ\text{C}$ for aluminum, $h=20\text{W/m}^2/\text{C}$, $T_a=30^\circ\text{C}$ the governing differential equation and boundary condition given by $K \frac{d^2 T}{dx^2} = Ph/A(T-T_a)$, $T(0)=T_w=300^\circ\text{C}$ $dT/dx(L)=0$.	BL 5	1	13

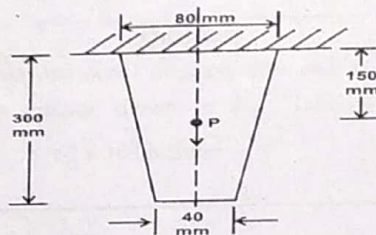


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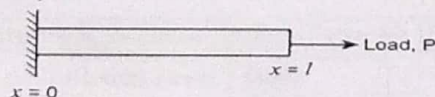
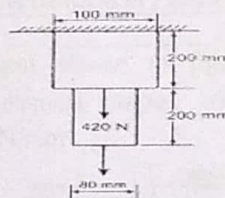
OR

12 (b)	Using Rayleigh-Ritz method determine the expressions for deflection in a simply supported beam subjected to uniformly distributed load over entire span. Also find the maximum bending moment using using the function $y = a_1 \sin \pi x/L + a_2 \sin 3\pi x/L$. Given EI is constant.	BL 3	1	13
13 (a)	For a tapered bar of uniform thickness $t=10\text{mm}$ as shown in figure. Find the displacements at the nodes by forming into two element model. The bar has a mass density $\rho = 7800 \text{ Kg/m}^3$, the young's modulus $E = 2 \times 10^5 \text{ MN/m}^2$. In addition to self weight, the bar is subjected to a point load $P=1 \text{ KN}$ at its centre. Also determine the reaction forces at the support.	BL 2	2	13



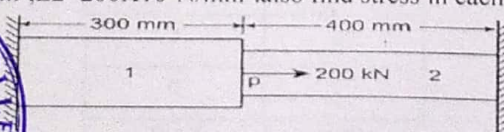
OR

13 (b)	A steel bar of length 400 mm is subjected to axial load of 420N as shown in figure. With thickness of 25, density is $0.8 \times 10^{-4} \text{ N/mm}^3$ Find the nodal displacements of the bar and load vectors. Also find element stress. Assume $E1 = 2 \times 10^5 \text{ N/mm}^2$.	BL 3	2	13
14 (a)	A bar of uniform cross section is clamped at one end and left free at the other end and it is subjected to a uniform axial load P as shown in Fig. Calculate the displacement and stress in a bar by using three terms polynomial. Compare with exact solutions.	BL 3	1	13



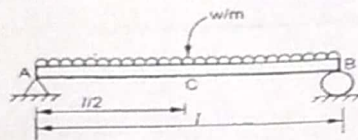
OR

14 (b)	consider bar as shown in figure. An axial load of 200kN is applied at point P. Calculate the following.(i)The nodal displacement at point,p,(iii)Reactionforce.Take $A1=2400\text{mm}^2$, $A2=600\text{mm}^2$, $E1=70 \times 10^9 \text{ N/mm}^2$, $E2=200 \times 10^9 \text{ N/mm}^2$.also find stress in each element.	BL 5	2	13
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15 (a)	Formulate the shape function, stiffness matrix and force vector for 1D linear bar element.	BL 6	2	13
OR				
15 (b)	Find the deflection at the centre of the simple supported beam of span length 'l' subjected to uniformly distributed load throughout its length as shown in figure using (i) Point collocation method (ii) sub domain collocation method (iii) least square method (iv) Galerikin method.	BL 4	1	13



PART- C ANSWER ANY ONE QUESTION (01 x 15 = 15 Marks)

Q. No	Questions	BL	CO	Mark
16.a.(i)	Calculate the unknown nodal displacements and axial stress in each member for the trusses shown in Fig. Take $A_1 = 500 \text{ mm}^2$, $A_2 = 1200 \text{ mm}^2$, $E = 2 \times 10^5 \text{ N/mm}^2$	BL 3	2	12
(ii)	List the Advantages and Demerits of Finite Element Method.	BL 1		03
16. b.(i)	For the bar element shown in figure calculate the nodal displacements and element stresses, and support reactions. Take $P=400\text{KN}$, $E=2 \times 10^5 \text{ N/mm}^2$.	BL 3	2	13
(ii)	Write the expression for element stiffness matrix for 1D bar element	BL 1		02

Blooms Level	Marks
1	22
2	19
3	64
4	36
5	26
6	13
Total	180

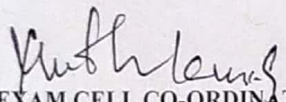


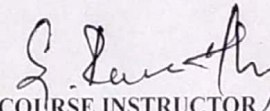
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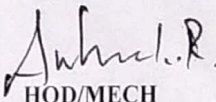
Q.NO	Course Outcome	Marks
1,2,3,4, 11 a) & b), 12 a) & b), 14 a), 15 b)	Summarize the basics of finite element formulation.	86
5,6,7,8,9,10, 13 a)& b), 14 b), 15 a), 16 a) b)	Apply finite element formulations to solve one dimensional Problems.	94

BL – Bloom's Taxonomy Levels

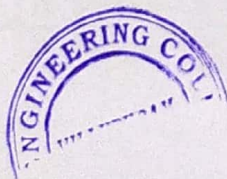
(L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing, L5 - Evaluating, L6 - Creating)

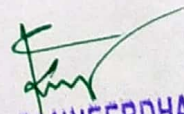

EXAM CELL CO-ORDINATOR


COURSE INSTRUCTOR,


HOD/MECH


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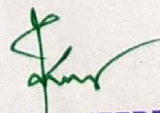
DEPARTMENT OF MECHANICAL ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH /01 /2022-23 –EVEN SEM

Date :06.02.2023

CIRCULAR

The first class committee meeting for VIII semester MECH is to be held in the HOD cabin on 08.02.2023 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Secure good marks in internal assessment exams.
- Selection of elective subjects.
- Batch preparation and research topics were chosen for the project work.
- Placement activities for final – year students.

S.NO	NAME	DESIGNATION	SIGN
1	DR.KAMAL BABU,S ASP/ MECH	Chair person	Kamal
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.BARANI KUMAR,AP/MECH	Member	Barani
4	MR.R.MANIVANNAN,AP/MECH	Member	Manivannan
5	Mr. VINOTH A AP/CIVIL	Member	Vinobha
6	MOHAN.D	Student Representative	Mohan
7	RAJAN.R	Student Representative	Rajall

Copy to:

1. Circulate among staff members.
2. Class advisor File.
3. Final – year students.

Anbazhagan
HOD



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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :08.02.2023

Minutes of meeting

The first class committee meeting for VIII Semester MECH was held on 08.02.2023 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	DR.KAMAL BABU.S ASP/ MECH	Chair person	Kamal
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbuzhagan
3	MR.R.BARANI KUMAR,AP/MECH	Member	Baranikumar
4	MR.R.MANIVANNAN,AP/MECH	Member	Manivannan
5	Mr. VINOTH A AP/CIVIL	Member	Vinoth
6	MOHAN.D	Student Representative	Mohand
7	RAJAN.R	Student Representative	Rajan

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the students to select the elective subject.
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.
7	Students were instructed to choose good research topics and prepare batches for the project.	HOD advised the students to choose creative and innovative research topics for the project and get approval from the guide.

3



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DEPARTMENT OF MECHANICAL ENGINEERING

8	Students are advised to prepare well to attend the placements and other exams.	Placement coordinators are instructed to identify new additional recruiters and arrange placement Training Programme for students. Special coaching was arranged for the public sector and Gate exams.
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Amrakesh

HOD

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2. Class advisor File.



Dr. R. Pannerdhass

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :06.02.2023

CIRCULAR

The first class committee meeting for VI semester MECH is to be held in the HOD cabin on 08.02.2023 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Academic schedule.
- Maintain proper dress code and class attendance.
- Arrangement for guest lecture / seminar for students.
- Secure good marks in internal assessment exams.
- Selection of elective subject.
- Batch preparation and topics were chosen for the mini –project.

S.NO	NAME	DESIGNATION	SIGN
1	MR.R.MANIVANNAN,AP/MECH	Chair person	Manivannan
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.BARANI KUMAR,AP/MECH	Member	Barani Kumar
4	DR.KAMAL BABU.S ASP/ MECH	Member	Kamal Babu
5	DR.V.GIRIJA ,ASP/S&H	Member	Giriya
6	RAJADURAI.K	Student Representative	Raja Durai
7	SANJAI.K	Student Representative	Sanjai
8	NISHANTH.S	Student Representative	Nishanth

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- 2.Class advisor File.
- 3.Third –year Students.

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :08.02.2023

Minutes of meeting

The first class committee meeting for VI Semester MECH was held on 08.02.2023 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR.R.MANIVANNAN,AP/MECH	Chair person	Manivannan
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.BARANI KUMAR,AP/MECH	Member	Barani Kumar
4	DR.KAMAL BABU.S ASP/ MECH	Member	Kamal Babu
5	DR.V.GIRIJA ,ASP/S&H	Member	Girija
6	RAJADURAI.K	Student Representative	Rajadurai
7	SANJAI.K	Student Representative	Sanjai
8	NISHANTH.S	Student Representative	Nishanth

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
4	Selection of the elective subject for the current semester.	HOD instructs the students to select the elective subject.
5	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.

COPY:

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2.Class advisor File.



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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :06.02.2023

CIRCULAR

The first class committee meeting for IV semester MECH is to be held in the HOD cabin on 08.02.2023 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Discuss text books and reference books.
- Maintain proper dress code and class attendance.
- Arrangement for guest lecture / seminar for students.
- Secure good marks in internal assessment exams.
- Value-added courses for students.

S.NO	NAME	DESIGNATION	SIGN
1	DR.KAMAL BABU.S ASP/ MECH	Chair person	Kamallbabu
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.MANIVANNAN,AP/MECH	Member	manivannan
4	MR.K.SAKTHIVEL,AP/MECH	Member	Sakthivel
5	MR.A.ARULKUMAR,AP/MECH	Member	ARUL KUMAR
6	BOSE.M	Student Representative	Bose
7	NAVEEN.R	Student Representative	Naveen
8	MUTHUBALAN.M	Student Representative	Muthubalan

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- 3.second – year students

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :08.02.2023

Minutes of meeting

The first class committee meeting for IV Semester MECH was held on 08.02.2023 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	DR.KAMAL BABU.S ASP/ MECH	Chair person	<i>Kamal Babu</i>
2	DR.R.ANBZHAGAN,AP/MECH	HOD	<i>Anbazhagan</i>
3	MR.R.MANIVANNAN,AP/MECH	Member	<i>Manivannan</i>
4	MR.K.SAKTHIVEL,AP/MECH	Member	<i>Sakthivel</i>
5	MR.A.ARULKUMAR,AP/MECH	Member	<i>Arul Kumar</i>
6	BOSE.M	Student Representative	<i>Bose</i>
7	NAVEEN.R	Student Representative	<i>Naveen</i>
	MUTHUBALAN.M	Student Representative	<i>Muthubalan</i>

S.NO	Points discussed	Action taken
1	HOD instructed the students about the requirements of books.	HOD inform the class advisor to collect the student count and purchase books from the suppliers.
2	Students were instructed to maintain the proper dress code and not avail of leave without permission	HOD instructs the faculties to monitor the student's dress code, haircut and other measures on campus.
3	Maintain the Student's discipline inside the classroom and on campus.	HOD instructs the class advisors to monitor the student's discipline inside the classroom and on campus.
5	Students are advised to prepare well for IA Exam and secure good marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. It will reflect on student's internal marks.
6	Make arrangements for guest Lectures / seminar for the benefit of the students.	HOD instructed the faculties to make arrangements for guest lectures and seminars.

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[Signature]
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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH /01 /2022-23 –EVEN SEM

Date :015.03.2023

CIRCULAR

The second class committee meeting for VIII semester Mechanical Engineering is to be held in the HOD cabin on 16.03.2023 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

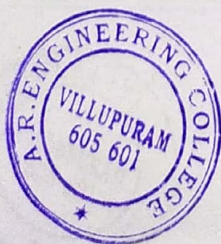
- University result analysis for the previous semester.
- Status of the project work and conduct review for students.
- Internship benefits.
- Students gets fellowships in various project in reputed organization.

S.NO	NAME	DESIGNATION	SIGN
1	DR.KAMAL BABU.S ASP/ MECH	Chair person	Kamal Babu
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.BARANI KUMAR,AP/MECH	Member	Baranikumar
4	MR.R.MANIVANNAN,AP/MECH	Member	Manivannan
5	Mr. VINOTH A AP/CIVIL	Member	Vinoth
6	MOHAN.D	Student Representative	Mohan
7	RAJAN.R	Student Representative	Rajan

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6. Final – year students.

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :16.03.2023

Minutes of meeting

The second class committee meeting for VIII Semester Mechanical Engineering was held on 16.03.2023 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	DR.KAMAL BABU.S ASP/ MECH	Chair person	Kamal Babu
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.BARANI KUMAR,AP/MECH	Member	Barani Kumar
4	MR.R.MANIVANNAN,AP/MECH	Member	Manivannan
5	Mr. VINOTH A AP/CIVIL	Member	Vinodh
6	MOHAN.D	Student Representative	Mohan
7	RAJAN.R	Student Representative	Rajan

S.NO	Points discussed	Action taken
1	HOD instructed the students to submit their details for the convocation and clear the fees due.	Class advisor collect the data sheet of students and prepare the convocation details.
2	HOD instructed the students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve their skills through an internship and in-plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	Students were instructed to update the current status of the project.	A final review was conducted by the coordinator who informed to submit the final report and project kit to the guide.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.
6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate	Display the brochures of various events

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DEPARTMENT OF MECHANICAL ENGINEERING

	in paper presentation and symposium to develop their knowledge.	conducted by the other institution on the notice board. And encourage the students to participate.
8	HOD instructed the students to register for apprenticeships in government and private industries.	HOD explain the process of registration for apprenticeship and its benefits to the students.

Anbarchaif
HOD

Copy

1. Circulate among staff members.
2. Class advisor File.



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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :17.03.2023

CIRCULAR

The second class committee meeting for VI semester Mechanical Engineering is to be held in the HOD cabin on 18.03.2023 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.
- Status of the mini –project.
- Actively participate in paper presentations and symposiums.

S.NO	NAME	DESIGNATION	SIGN
1	MR.R.MANIVANNAN,AP/MECH	Chair person	
2	DR.R.ANBZHAGAN,AP/MECH	HOD	
3	MR.R.BARANI KUMAR,AP/MECH	Member	
4	DR.KAMAL BABU.S ASP/ MECH	Member	
5	DR.V.GIRIJA ,ASP/S&H	Member	
6	RAJADURAI.K	Student Representative	
7	SANJAI.K	Student Representative	
8	NISHANTH.S	Student Representative	

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- 2.Class advisor File.
- 3.Third –year Students.

HOD



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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :18.03.2023

Minutes of meeting

The second class committee meeting for VI Semester MECH was held on 18.03.2023 in the HOD cabin at 01.10 pm with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	MR.R.MANIVANNAN,AP/MECH	Chair person	Manivannan
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.BARANI KUMAR,AP/MECH	Member	Barani
4	DR.KAMAL BABU.S ASP/ MECH	Member	Kamal
5	DR.V.GIRIJA ,ASP/S&H	Member	Giri
6	RAJADURAI.K	Student Representative	Raja
7	SANJAI.K	Student Representative	Sanjay
8	NISHANTH.S	Student Representative	Nishanth

S.NO	Points discussed	Action taken
1	The Students were advised again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
2	HOD instructed the Students about the university result analysis for the previous semester. Students are advised to focus on their studies and prepare for exams.	Class advisors inform the university result of students to their parents and advised them to focus on their studies. Instruct them to study well during the exam schedule.
3	Students were instructed to improve the skills through an internship and in –plant training.	Provide bonafide certificates and permission letters to students to attend internships in industries.
4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advised to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic

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		subjects.
6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various events conducted by the other institution on the notice board. And encourage the students to participate.

COPY:

- 1.Circulate among staff members.
- 2.Class advisor File.

Anbasha
HOD



[Signature]
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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date : 18.03.2023

CIRCULAR

The second class committee meeting for IV semester MECH is to be held in the HOD cabin on 20.03.2023 at 11.05 am. Students are expected to inform about their difficulties and requirements to class representative. All class committee meeting members are invited to attend the meeting.

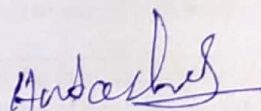
Agenda :

- Maintain proper dress code and discipline inside the campus.
- University result analysis for the previous semester.
- Syllabus coverage of subjects.
- Student's performance in the IA exam and their attendance percentage.

S.NO	NAME	DESIGNATION	SIGN
1	DR.KAMAL BABU.S ASP/ MECH	Chair person	Kanok
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.MANIVANNAN,AP/MECH	Member	Mani Van
4	MR.K.SAKTHIVEL,AP/MECH	Member	Sakthi
5	MR.A.ARULKUMAR,AP/MECH	Member	Alembur
6	BOSE.M	Student Representative	Bose.M
7	NAVEEN.R	Student Representative	Naveen
8	MUTHUBALAN.M	Student Representative	Muthu

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1. Circulate among staff members.
2. Class advisor File.
3. second - year students


HOD


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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS COMMITTEE MEETING

REF : AREC / MECH/01 /2022-23 –EVEN SEM

Date :20.03.2023

Minutes of meeting

The second class committee meeting for IV Semester MECH was held on 20.03.2023 in the HOD cabin at 11.10 am with the following staff member and students as members.

S.NO	NAME	DESIGNATION	SIGN
1	DR.KAMAL BABU.S ASP/ MECH	Chair person	Kahala
2	DR.R.ANBZHAGAN,AP/MECH	HOD	Anbazhagan
3	MR.R.MANIVANNAN,AP/MECH	Member	Mani
4	MR.K.SAKTHIVEL,AP/MECH	Member	Sakith
5	MR.A.ARULKUMAR,AP/MECH	Member	Arulkumar
6	BOSE.M	Student Representative	BoSe
7	NAVEEN.R	Student Representative	Naveen
	MUTHUBALAN.M	Student Representative	Muthubalan

S.NO	Points discussed	Action taken
1	The Students were advised again to maintain discipline on the college campus. They were instructed to wear ID cards compulsorily and were asked to follow the proper dress code.	HOD inform the faculties to identify the students and strictly instruct them.
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4	The student's performance on the IA examinations was discussed and not at the expected level. So they were advised to prepare well for the next IA exams so that get good internal marks.	HOD instructed the faculties to give important questions and conduct slip tests for students. Slow learners are identified and special classes are conducted.
5	Discussion were held regarding the syllabus covered in all subjects.	HOD instructed the faculties to fill in the portion coverage details. Extra hours are allocated for problematic subjects.

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DEPARTMENT OF MECHANICAL ENGINEERING

6	HOD instructed the students to complete their observation and turn in their record work by the deadline specified by the particular lab in charge.	The lab in charge verifies the observation and records and got the sing from the Head of the Department.
7	Students were instructed to actively participate in paper presentation and symposiums to develop their knowledge.	Display the brochures of various events conducted by the other institution on the notice board. And encourage the students to participate.

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1. Circulate among staff members.
2. Class advisor File.

Anbachap
HOD



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VILLUPURAM-605 601

Reg. No. :

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Question Paper Code : 50885

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Sixth/Seventh Semester

Mechanical Engineering

ME 8692 — FINITE ELEMENT ANALYSIS

(Common to Automobile Engineering/Manufacturing Engineering/Mechanical Engineering (Sandwich)/Mechanical and Automation Engineering/Production Engineering)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List any four points that a user must know to use the FEA packages properly.
2. Illustrate your understanding about the term "convergence" in FEA.
3. Find the temperature at a distance of 25 mm from origin for an element of length 45 mm. The temperature is linearly varying and its values at nodes 1 and 2 are 90°C and 120°C, respectively.
4. Give the conduction, convection and thermal load matrices for 1 D heat transfer through compressor fin.
5. Evaluate the shape functions N_1 , N_2 and N_3 at the interior point 'P' for the triangular element having coordinates (3, 2), (7, 4) and (5, 8).
6. Give your view about higher-order elements.
7. Distinguish between plane stress and plane strain conditions.
8. List the conditions to be satisfied for a problem to be treated as axisymmetric.
9. Compare isoparametric, super parametric and sub-parametric elements.
10. Differentiate dynamic analysis from static analysis.



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PART B — ($5 \times 13 = 65$ marks)

11. (a) Find the deflection at the centre of a simply supported beam of span length l subjected to uniformly distributed load throughout its length as shown in Figure 11 (a), using

- (i) Least squares method, and
- (ii) Galerkin's method.

Use trigonometric series trial function.

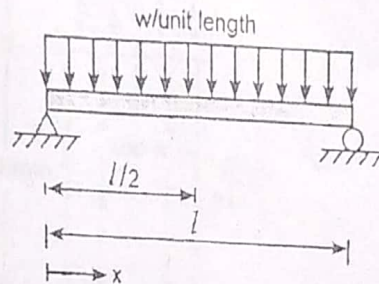


Figure 11 (a)

Or

- (b) A bar of uniform cross-section is fixed at one end and left free at the other end and it is subjected to a uniform axial load F as shown in Figure 11 (b). Calculate the displacement and stress using Rayleigh's-Ritz procedure with two term polynomial function.

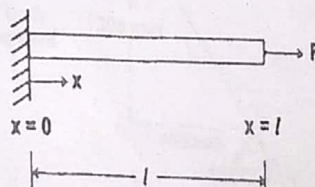


Figure 11 (b)



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12. (a) A thin plate of uniform thickness 20 mm, is as shown in Figure 12 (a). In addition to the self-weight, the plate is subjected to a point load of 400 N at mid-depth. The Young's modulus $E = 2 \times 10^5 \text{ N/mm}^2$ and density $\rho = 0.8 \times 10^{-4} \text{ N/mm}^3$. Analyze the plate after modeling it with two elements and find the stresses in each element. Determine the support reactions also.

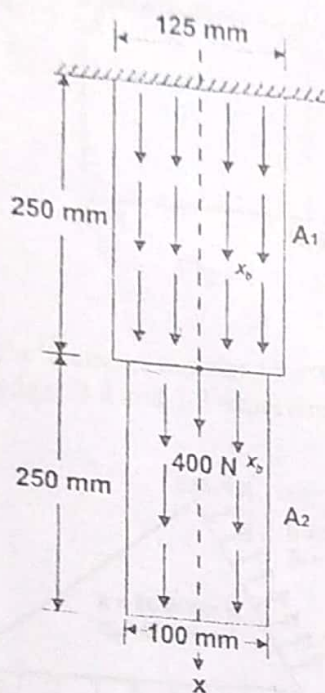


Figure 12 (a)

Or

- (b) For the two-bar truss as shown in Figure 12 (b), determine the displacements at node 2 and the stresses in both elements.

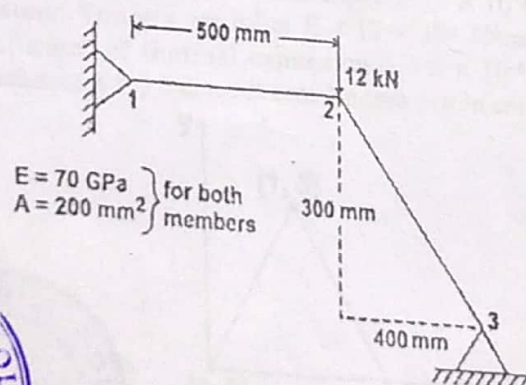


Figure 12 (b)



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13. (a) For a four noded rectangular element shown in Figure 13 (a), determine the temperature at the point (2, 1). The nodal temperatures are $T_1 = 42^\circ\text{C}$, $T_2 = 54^\circ\text{C}$, $T_3 = 56^\circ\text{C}$ and $T_4 = 46^\circ\text{C}$.

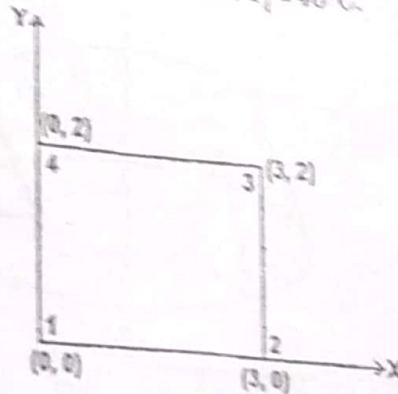


Figure 13 (a)

Or

- (b) Compute the element matrices for the element shown in Figure 13 (b), when the edges 2-3 and 1-3 experience convection heat loss.

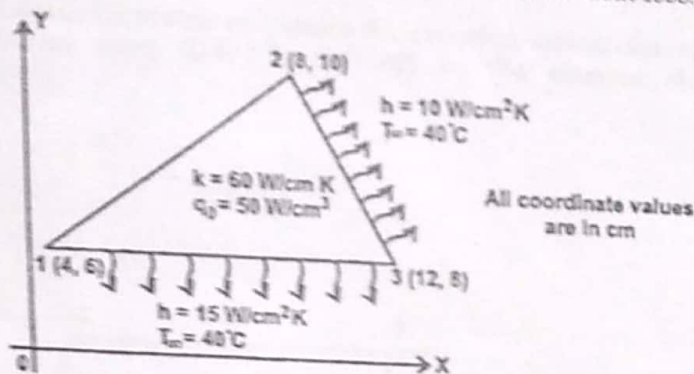


Figure 13 (b)

14. (a) Calculate the thermal force vector for the plane stress element shown in Figure 14 (a). The element experience a 10°C increase in temperature. Assume Young's modulus $E = 15 \times 10^6 \text{ N/cm}^2$, Poisson's ratio $\mu = 0.25$, coefficient of thermal expansion $\alpha = 6 \times 10^{-6} \text{ cm/cm}^\circ\text{C}$ and the element thickness $t = 0.5 \text{ cm}$. All coordinates are in centimeters.

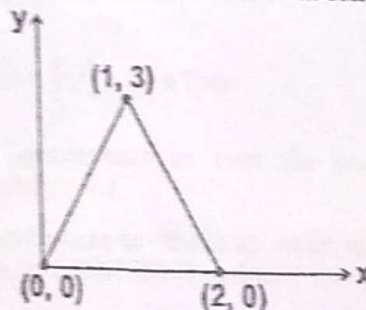


Figure 14 (a)

Or



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- (b) Derive the strain-displacement matrix for the axisymmetric triangular element shown in Figure 14 (b).

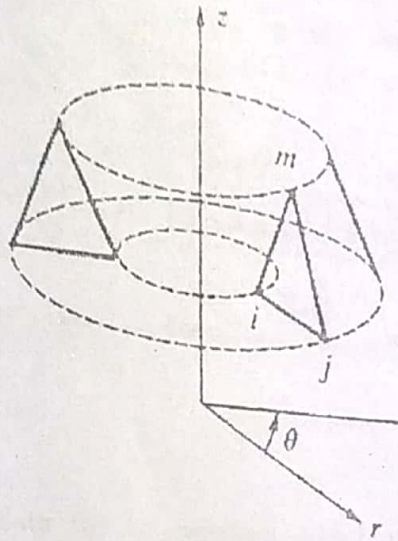


Figure 14 (b)

15. (a) Assemble Jacobian matrix and strain displacement matrix corresponding to the Gauss point (0.57735, 0.57735) for the element shown in Figure 15 (a).

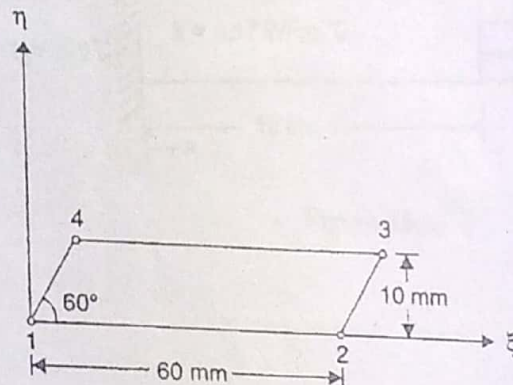


Figure 15 (a)

Or

- (b) (i) Evaluate the integral

(5)

$$f(r) = \int_{-1}^1 (r^2 - 3r + 7) dr$$

Using Gaussian quadrature so that the result is exact. Take $r_i = \pm 0.5773503$ and $w_i = 1$.

- (ii) Use Gaussian quadrature to obtain an exact value for the integral. Consider, r_i and $s_i = \pm 0.5773503$ and $w_i = 1$. (8)

$$I = \int_{-1}^1 \int_{-1}^1 (r^3 - 1)(s - 1)^2 dr ds$$

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PART C — (1 × 15 = 15 marks)

16. (a) For the beam shown in Figure 16(a), compute slope at the hinged support points, Take $E = 200 \text{ GPa}$, $I = 4 \times 10^{-6} \text{ m}^4$. Use two beam elements.

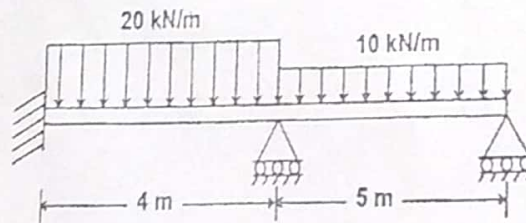


Figure 16(a)

Or

- (b) Calculate the temperature distribution in the stainless steel fin of circular cross section shown in Figure 16(b). The cross section of the fin is circular with diameter of 2 cm. Discretize the fin into 5 elements.

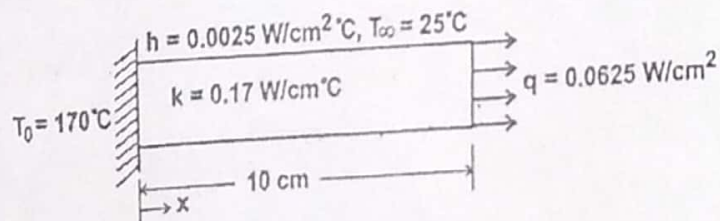


Figure 16(b)



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