



Format No. FR-25a ev. No. 01 Issue Date 15.04.2016

ODD Semester

Centralized IA Test - 1 Time Table

7th Semester

Academic year 2022-23

			7th Semester (Scheme -2013)		
Date	Time	Computer Science & Engineering	Electronics & Communication Engineering	Electrical & Electronics Engineering	Mechanical Engineering
19.10.2022	09.30-11.00 AM	18CS71-Artificial Intelligence and Machine Learning	18EC71-Computer Networks	18EE71-Power system Analysis -2	18ME71-Control Engineering
19.10.2022	02.00-03.30 PM	2-ig buttu rimary acs	18EC72-VLSI Design	18EE72-Power System Protection	18ME72-Computer Aided Design and Manufacturing
20.10.2022	09.30-11.00 AM	18CS734-User Interface Design	18EC733-Digital Image Processing	18EE732-Micro & Nano Sensors & Transducers	18ME734-Total quality management
20.10.2022	02.00-03.30 PM	18CS744-Cryptography	18EC743-Multimedia Communications	18EE744-Smart Grid	18ME741-Addictive Manufacturing
21.10.2022	09.30-11.00 AM	18EE753-Disasters Management	18CS753-Introduction to AI	18CS753- Introduction to	18EE752-Electric Vehicle

Head - Centralized IA Cell

PRINCIPAL

Sri Sairam College of Engineering Sai Lee Magar, Gucdanaholii Post, Anekai, Bengaluru - 562 106



SCE/ CIA /2022-23/ 1264

15.10.2022

CIRCULAR

Sub: IA Test - 1 Timetable - reg.

This is to inform that 7th Semester Centralized Internal Test-1 is scheduled from 19th Oct-21th October 2022. All HOD's are requested to submit two sets of hard copy of question papers for their respective department subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 17.10.2022.

Encl:

1. IA - Timetable

Srl Salram College of Engineering Salles Nagar, Guddanakalii Post,

Anekal, Bengaluru - 562 106

CC to : Chairman, SSCE, Anekal

: All HODs

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17/10/2022.





Format No. FR-25a Kev. No.

Issue Date 15.04.2016

ODD Semester

Centralized IA Test - 1 Time Table

5th Semester

Academic year 2022-23

	5 th Semester (Scheme -2	010)
Date	Time	CSE/ECE/EEE/MECH
14.11.2022	09.30-11.00 AM	18XX51
14.11.2022	02.00-03.30 PM	18XX52
15.11.2022	09.30-11.00 AM	18XX53
15.11.2022	02.00-03.30 PM	18XX54
16.11.2022	09.30-11.00 AM	18XX55X
16.11.2022	02.00-03.30 PM	18XX56X
17.11.2022	09.30-10.30 AM	18CIV59

Head - Centralized IA Cell

Dept. of Artificial Intelligence & Machine Learning Sri Sairam College of Engineering Sai Lec Nagar, Guddanahalli (Post) Anekal, Bengaluru - 862 106. PRINCIPAL

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Sri Sairam College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106



SCE/CIA/2022-23/1271

07.11.2022

CIRCULAR

Sub: IA Test - 1 Timetable - reg.

This is to inform that 5th Semester Centralized Internal Test-1 is scheduled from 14th Nov - 17th Nov 2022. All HOD's are requested to submit two sets of hard copy with Scheme & Solution of question papers for their respective department subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 10.11.2022.

Encl:

1. IA - Timetable

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Format No. FR-25a

Rev. No. 01

Issue Date 15.04.2016

ODD Semester

Centralized IA Test - 1 & 2 Time Table - 3rd & 7th Semester

Academic year 2022-23

		CIE - Timetable		
5_ /		3rd Semester (Scheme -2021)	7th Semester (Scheme -2018)	
Date	Time	AIML/CSE/ECE/EEE/MECH	CSE/ECE/EEE/MECH	
05.12.2022	09.30-11.00 AM	21MAT31	18XX71	
05.12.2022	02.00-03.30 PM	21XX32	18XX72	
06.12.2022	09.30-11.00 AM	21XX33	18XX73	
06.12.2022	02.00-03.30 PM	21XX34	18XX74	
07.12.2022	09.30-11.00 AM	21KSK/KBK37 / 21CIP37	18XX75X	

Head - Centralized IA Cell

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SCE/ CIA /2022-23/

21.11.2022

CIRCULAR

Sub: IA Test-1 & 2 Timetable - reg.

This is to inform that 3rd semester & 7th Semester Centralized Internal Test-1 & Test-2 respectively is scheduled from 05th Dec – 07th Dec 2022. All HOD's are requested to submit two sets of hard copy with Scheme & Solution of question papers for their respective department subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 27.11.2022.

Encl:

1. IA - Timetable

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Format No. FR-25a

Rev. No. 01

Issue Date 15.04.2016

ODD Semester

Centralized IA Test - 2 & 3 - Time Table 5th & 7th Semester

Academic year 2022-23

		CIA Timetable	
		5th Semester (Scheme -2018)	7th Semester (Scheme -2018)
Date	Time	CSE/ECE/EEE/MECH	CSE/ECE/EEE/MECH
26.12.2022	09.30-11.00 AM	18XX51	18XX71
26.12.2022	02.00-03.30 PM	18XX52	18XX72
27.12.2022	09.30-11.00 AM	18XX53	18XX73
27.12.2022	02.00-03.30 PM	18XX54	18XX74 -
28.12.2022	09.30-11.00 AM	18XX55X	18XX75X
28.12.2022	02.00-03.30 PM	18XX56X	••
29.12.2022	09.30-10.30 AM	18CIV59	**

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SCE/CIA/2022-23/1276

15.12.2022

CIRCULAR

Sub: IA Test - 2 & 3 Timetable - reg.

This is to inform that Centralized Internal Test- 2 & 3 for 5th & 7th Semester is scheduled from 26th Dec - 29th Dec 2022 respectively. HOD's are requested to submit two sets of hard copy with Scheme & Solution of question papers for their respective department subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 20.12.2022.

Encl:

1. IA - Timetable

Sri Sairam College of Engineering

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Tit I. TEST TIMETABLE

Format No. FR-25a

Rev. No. 01

Issue Date 15.04.2016

ODD Semester

Centralized IA Test - 2 Time Table

- 3rd Semester

Academic year 2022-23

CIE - Timetable

Date	Time	3 rd Semester (Scheme -2021) AIML/CSE/ECE/EEE/MECH
Date	Time	
04.01.2023	09.30-11.00 AM	21MAT31
04.01.2023	02.00-03.30 PM	21XX32
05.01.2023	09.30-11.00 AM	21XX33
05.01.2023	02.00-03.30 PM	21XX34
06.01.2023	09.30-11.00 AM	21KSK/KBK37 / 21CIP37

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SCE/ CIA /2022-23/1277

26.12.2022

CIRCULAR

Sub: IA Test - 2 Timetable - reg.

This is to inform that Centralized Internal Test- 2 for 3^{rd} Semester is scheduled from 04th Jan - 06th Jan 2023. HOD's are requested to submit two sets of hard copy with Scheme & Solution of question papers for their respective department subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 28.12.2022.

Encl:

1. IA - Timetable

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Issue Date 15.04.2016

ODD Semester

Centralized IA Test - 1 & 3 Time Table - 1st & 5th Semester

Academic year 2022-23

		CIE - Tin	ietable	4
Date	Time	Physics Cycle 1 st Semester (Scheme -2022)	Chemistry Cycle 1st Semester (Scheme -2022)	5 th Semester (Scheme -2018)
	* 4 J	AIML/CSE/ISE	ECE/EEE/MECH	CSE/ECE/EEE/MECH
23.01.2023	09.30-11.00 AM	22MATS11	22MATX11	18XX51
23.01.2023	02.00-03.30 PM	22ENG16	22ENG16	18XX52
24.01.2023	09.30-11.00 AM	22PHYS12	22CHEX12	18XX53
24.01.2023	02.00-03.30 PM	22KBK/KSK/17	22CIP17	18XX54
25.01.2023	09.30-11.00 AM	22XXX14X	22XXX14X	18XX55X
25.01.2023	02.00-03.30 PM	22IDT18	22SHF18	18XX56X
27.01.2023	09.30-11.00 AM	22ETC155	22ETCXXX	18CIV59
27.01.2023	02.00-03.30 PM	22POP13	After 11.00 am Regular	classes will be resumed

Head Centralized IA Cell

PRINCIPAL 18/01/2023







SCE/ CIA /2022-23/1280

18.01.2023

CIRCULAR

Sub: IA Test - 1 & 3 Timetable - reg.

This is to inform that Centralized Internal Test - 1 & 3 for 1st Semester and 5th Semester is scheduled from 23rd Jan - 27th Jan 2023 respectively. HOD's are requested to submit two sets of hard copy with Scheme & Solution of question papers for their respective department subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 19.12.2022.

Encl:

1. IA - Timetable

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Title: I.A. TEST TIMETABLE

Format No. FR-25a

Rev. No. 01

Issue Date 15.04.2016

ODD Semester

Centralized IA Test - 2 & 3 Time Table - 1st & 3rd Semester

Academic year 2022-23

	CIE - Timetable					
Date	Time	Physics Cycle 1 st Semester (Scheme –2022)	Chemistry Cycle 1 st Semester (Scheme -2022)	3 rd Semester (Scheme -2021)		
		AIML/CSE/ISE	ECE/EEE/MECH	AIML/CSE/ECE/EEE/MECH		
27.02.2023	09.30-11.00 AM	22MATS11	22MATX11	18XX31		
27.02.2023	02.00-03.30 PM	22ENG16	22ENG16	18XX32		
28.02.2023	09.30-11.00 AM	22PHYS12	22CHEX12	18XX33		
28.02.2023	02.00-03.30 PM	22KBK/KSK/17	22CIP17	21KSK/KBK37 / 21CIP37		
01.03.2023	09.30-11.00 AM	22XXX14X	22XXX14X	18XX34		
01.03.2023	02.00-03.30 PM	22IDT18	22SHF18			
02.03.2023	09.30-11.00 AM	22ETC155	22ETCXXX	_		
02.03.2023	02.00-03.30 PM	22POP13	After 11.00 am Regu	lar classes will be resumed		

Head - Centralized IA Cell

PRINCIPAL
Sri Sairam College of Engineering Sai Leo Nagar, Guddanahalli Post, Anekai, Bengaluru - 562 106







SCE/CIA/2022-23/ 1284

17.02.2023

CIRCULAR

Sub: IA Test - 2 & 3 Timetable - reg.

This is to inform that Centralized Internal Test- 2 & 3 for 1st Semester & 3rd Semester is scheduled from 27th Feb – 02nd March 2023 respectively. HOD's are requested to submit a hard copy (One Set/Two Sets) of question paper with Scheme & Solution their respective subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 23.02.2023 through respective HOD.

Encl:

1. IA - Timetable

PRINCIPAL

Sri Sairam College of Engineering

Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106

Note:

If different faculty handling the same subject for different section - One set of QP & Scheme per faculty.

If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty

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Format No. FR-25a Rev. No.

Issue Date 15.04.2016

Centralized IA Test - 3 Time Table

ODD Semester

1st Semester

Academic year 2022-2

		CIE - Timetable	
Date	Time	Physics Cycle 1 st Semester (Scheme -2022)	Chemistry Cycle 1st Semester (Scheme -2022)
α	0	AIML/CSE/ISE	ECE/EEE/MECH
27.03.2023	09.30-11.00 AM	22MATS11	22MATX11
27.03.2023	02.00-03.30 PM	22ENG16	22ENG16
28.03.2023	09.30-11.00 AM	22PHYS12	22CHEX12
28.03.2023	02.00-03.30 PM	22KBK/KSK/17	22CIP17
29.03.2023	09.30-11.00 AM	22XXX14X	22XXX14X
29.03.2023	02.00-03.30 PM	22IDT18	22SHF18
30.03.2023	09.30-11.00 AM	22ETC155	22ETCXXX
30.03.2023	02.00-03.30 PM	22POP13	After 11.00 am Regular classes will be resumed

Head - Centralized IA Cell

PRINCIPAL

Sri Sairam College of Engineering Sai Leo Nagar, Guddanahalii Post, Anekal, Bengaluru - 562 106







SCE/CIA/2022-23/1294

08.03.2023

CIRCULAR

Sub: 1st Year - IA Test - 3 Timetable - reg.

This is to inform that Centralized Internal Test - 3 for 1st Semester is scheduled from 27th March - 30th March 2023 respectively. HOD's are requested to submit a hard copy (One Set/Two Sets) of question paper with Scheme & Solution their respective subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 23.03.2023 through respective HOD.

Encl:

1. IA - Timetable

PRINCIPAL

Sri Salram College of Engineeritis Sai Leo Nagar, Guddanahalii Post, Apekal, Dengaluru - 362 106

Note:

If different faculty handling the same subject for different section - One set of QP & Scheme per faculty.

❖ If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty

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@ First year Faculties,

kindly submit the question papers before the deadline.

Olily 9/3/2023





Format No. FR-25a Rev. No.

Issue Date 15.04.2016

Centralized IA Test - 1 Time Table

ODD Semester

8th Semester

Academic year 2022-2:

Data	Time	CSE/ECE/EEE/ME	
Date	Time	2018 Scheme	
16.03.2023	09.30-11.00 AM	18XX81	
16.03.2023	02.00-03.30 PM	18XX82X	

Head Centralized IA Cell

PRINCIPAL

Sri Salram College of Engineering Sai Leo Nagar, Guddanahalli Post. Anekal, Bengaluru - 562 106





SCE/CIA/2022-23/ 1295

10.03.2023

CIRCULAR

Sub: 45h Year - IA Test - 1 Timetable - reg.

This is to inform that Centralized Internal Test - 1 for 8th Semester is scheduled from 16th March 2023 respectively. HOD's are requested to submit a hard copy (One Set/Two Sets) of question paper with Scheme & Solution their respective subjects with Invigilation details after IQAC verification to the IA Center Coordinator (HOD-AIML) on or before 13.03.2023 through respective HOD.

Encl:

1. IA - Timetable

Sri Sairam College of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106

Note:

If different faculty handling the same subject for different section - One set of QP & Scheme per faculty.

If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty

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Issue Date: 15.04.2016

Centralized IA Test - 1 & 2

EVEN Semester

Academic Year: 2022-2023

IA-1 - 6th Semester

Date	Time	CSE/ECE/EEE/ME
28.04.2023	09.30 am to 11.00 am	18XX61
28.04.2023	02.00 pm to 03.30 pm	18XX62
29.04.2023	09.30 am to 11.00 am	
29.04.2023	02.00 pm to 03.30 pm	18XX63
02.05.2023	09.30 am to 11.00 am	18XX64
	0 7.50 am to 11.00 am	18XX65X

IA-2 - 8th Semester

Date	Time	CSE /ECE /EEE /ME
29.04.2023	09.30 am to 11.00 am	CSE/ECE/EEE/ME 18XX81
29.04.2023	02.00 pm to 03.30 pm	
	raise pin to 03.30 pin	18XX82X

Head Centralized la Cell

PRINCIPAL.





SCE/CIA/2022-23/EVEN/ /309

21.04.2023

CIRCULAR

Sub: Centralized IA Test Schedule - 3rd year & 4th year - reg.

This is to inform that Centralized Internal Test - 1 and 2 for 3rd year (6th Semester) and 4th year (8th Semester) respectively is scheduled from 28.04.2023 to 02.05.2023. HODs and Dept. IA coordinators are requested to submit a hardcopy (One Set / Two Sets) of question paper with Scheme & Solution for their respective department subjects with invigilation details after IQAC verification to the Centralized IA Cell Coordinator (HOD-AIML) on or before 24.04.2023 through respective HOD.

Encl:

1. IA - Timetable

Note:

If different faculty handling the same subject for different sections - one set of QP & Scheme per faculty

If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty

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Title: I.A.	TEST TIMETABLE
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Format No. FR-25a Rev. No.

Issue Date: 15.04.2016

Centralized IA Test - 3

EVEN Semester

Academic Year: 2022-2023

IA-3 - 8th Semester

Date	Time	CSE/ECE/EEE/ME	
11.05.2023 09.30 am to 11.00 am		18XX81	
11.05.2023	02.00 pm to 03.30 pm	18XX82X	

Head Centralized PACEII

PRINCIPAL

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SCE/CIA/2022-23/EVEN/ 1310

02.05.2023

CIRCULAR

Sub: Centralized IA Test Schedule - 4th year - reg.

This is to inform that Centralized Internal Test - 3 for 4th year (8th Semester) is scheduled on 11.05.2023. HODs and Dept. IA coordinators are requested to submit a hardcopy (One Set / Two Sets) of question paper with Scheme & Solution for their respective department subjects with invigilation details after IQAC verification to the Centralized IA Cell Coordinator (HOD-AIML) on or before 06.05.2023 through respective HOD.

Encl:

1. IA - Timetable

Salnam College Of Engineering eo Nagar, Guddanahalli Post,

Bengaluru - 562 106

Note:

If different faculty handling the same subject for different sections - one set of QP & Scheme per faculty

If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty

CC to : Chairman, SCE, Anekal.

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Format No. FR-25a Rev. No. 01 Issue Date: 15.04.2016

Centralized IA Test - 2

EVEN Semester

Academic Year: 2022-2023

IA-1 - 6th Semester

Date	Time	CSE/ECE/EEE/ME	
29.05.2023	09.30 am to 11.00 am	18XX61	
29.05.2023	02.00 pm to 03.30 pm	18XX62	
30.05.2023	09.30 am to 11.00 am	9.30 am to 11.00 am 18XX63	
30.05.2023	02.00 pm to 03.30 pm	18XX64	
31.05.2023	09.30 am to 11.00 am	18XX65X	

Head - Central Red IA Cell

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SCE/CIA/2022-23/EVEN/ /316

25.05.2023

CIRCULAR

Sub: Centralized IA Test Schedule - 3rd year - reg.

This is to inform that Centralized Internal Test – 2 for 3rd year (6th Semester) is scheduled from 29.05.2023 to 31.05.2023. HODs and Dept. IA coordinators are requested to submit a hardcopy (One Set / Two Sets) of question paper with Scheme & Solution for their respective department subjects with invigilation details after IQAC verification to the Centralized IA Cell Coordinator (HOD-AIML) on or before 27.05.2023 through respective HOD.

Encl:

1. IA - Timetable

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Note:

> If different faculty handling the same subject for different sections - one set of QP & Scheme per faculty

If the same faculty handling the subject for different sections – Two sets of QP & Scheme per faculty

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Format No. FR-25a Rev. No. 01

Issue Date: 15.04.2016

21.06.2023

Centralized IA Test Timetable

EVEN Semester

Academic Year: 2022-2023

Date	Time	AIML/CSE/ECE/EEE/ME	CSE/ECE/EEE/MI	
06.07.2023 09.30 am to 11.00 am		21XX41	18XX61	
06.07.2023	02.00 pm to 03.30 pm	21XX42	18XX62	
07.07.2023 09.30 am to 11.00 am		21XX43	18XX63	
07.07.2023 02.00 pm to 03.30 pm		21XX44	18XX64	
08.07.2023 09.30 am to 11.00 am		21XX45	18XX65X	
08.07.2023 12.00 pm to 01.00 pm		21KSK/KBK/CIP47	H = 1 4 ·	
08.07.2023	02.00 pm to 03.00 pm	21UHV49	-	

Head - Centralized A Cell

PRINCIPAL PRINCIPAL

Sri Sairam College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106





SCE/CIA/2022-23/EVEN/

21.06.2023

CIRCULAR

Sub: Centralized IA Test Schedule - 3rd year & 2nd year - reg.

This is to inform that Centralized Internal Test - 3 for 3rd year (6th Semester) and Internal Test - 1 for 2nd year (4th Semester) is scheduled from 06.07.2023 to 08.07.2023. HODs and Dept. IA coordinators are requested to submit a hardcopy (One Set / Two Sets) of question paper with Scheme & Solution for their respective department subjects with invigilation details after IQAC verification to the Centralized IA Cell Coordinator (HOD-AIML) on or before 30.06.2023 through respective HOD.

Encl:

1. IA - Timetable

PRINCIPAL

Sri Sairam College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106

Note:

If different faculty handling the same subject for different sections - one set of QP & Scheme per faculty.

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Format No. FR-25a Rev. No. 01

Issue Date: 15.04.2016

Centralized IA Test - 1

EVEN Semester

Academic Year: 2022-2023

IA-1 - 2nd Semester

Date	Time	AIML/CSE/ISE	ECE/EEE/ME	
19.07.2023	09.30 am to 11.00 am	BMATS201	BMATX201	
19.07.2023	02.00 pm to 03.30 pm	BSFHK258	BIDTK258	
20.07.2023	09.30 am to 11.00 am	BCHES202	ВРНҮХ202	
20.07.2023	02.00 pm to 03.30 pm	BPWSK206	BPWSK206	
21.07.2023	09.30 am to 11.00 am	BESCK204D	BESCK204D	
21.07.2023	02.00 pm to 03.30 pm	BICOK207	BKSKK207/ BKBKK207	
22.07.2023	09.30 am to 11.00 am	BPLCK205X	BPLCK205X	
22.07.2023	02.00 pm to 03.30 pm	Regular Classes	BBEE203/BEME203	

Head Centry med IA Cell

PRINCIPAL 13/01/202

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SCE/CIA/2022-23/EVEN/ 1326

12.07.2023

CIRCULAR

Sub: Centralized IA Test Schedule - 1st year - reg.

This is to inform that Centralized Internal Test - 1 for 1st year (2nd Semester) is scheduled from 19.07.2023 to 22.07.2023. HODs and Dept. IA coordinators are requested to submit a hardcopy (One Set / Two Sets) of question paper with Scheme & Solution for their respective department subjects with invigilation details after IQAC verification to the Centralized IA Cell Coordinator (HOD-AIML) on or before 17.05.2023 through respective HOD.

Encl:

1. IA - Timetable

PRINCIPAL

Note:

If different faculty handling the same subject for different sections - one set of QP & Scheme per faculty

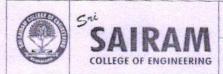
If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty

CC to : Chairman, SCE, Anekal.

: ALL HODs

: MR/Office/Lib/PLM/PED/Stores/Transport/Canteen

: Trust Office



Format No. Rev. No. Issue Date: FR-25a

01

15.04.2016

Centralized IA Test Timetable

EVEN Semester

Academic Year: 2022-2023

Date	Time	AIML/CSE/ECE/EEE/ME	
14.08.2023	09.30 am to 11.00 am	21XX41	
14.08.2023	02.00 pm to 03.30 pm	21XX45	
16.08.2023	09.30 am to 11.00 am	21XX42	
16.08.2023	02.00 pm to 03.30 pm	21KSK/KBK/CIP47	
17.08.2023	09.30 am to 11.00 am	21XX43	
17.08.2023	12.00 pm to 01.00 pm	21UHV49	
18.08.2023	02.00 pm to 03.00 pm	21XX44	

PRINCIPAL





SCE/CIA/2022-23/EVEN/ 1331

07.08.2023

CIRCULAR

Sub: Centralized IA Test Schedule - 2nd year (4th Sem) - reg.

This is to inform that Centralized Internal Test - 2 for 2nd year (4th Semester) is scheduled from 14.08.2023 to 18.08.2023. HODs and Dept. IA coordinators are requested to submit a hardcopy (One Set / Two Sets) of question paper with Scheme & Solution for their respective department subjects with invigilation details after IQAC verification to the Centralized IA Cell Coordinator (HOD-AIML) on or before 10.08.2023 through respective HOD.

Encl:

1. IA - Timetable

Note:

If different faculty handling the same subject for different sections - one set of QP & Scheme per faculty.

If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty.

CC to : Chairman, SCE, Anekal.

: ALL HODS

: MR/Office/Lib/PLM/PED/Stores/Transport/Canteen

: Trust Office

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Obligation.



Format No. FR-25a Rev. No.

Issue Date: 15.04.2016

24.08.2023

Centralized IA Test - 3 Timetable

EVEN Semester

Academic Year: 2022-2023

Date	Time	AIML/CSE/ECE/EEE/MI	
11.09.2023	09.30 am to 11.00 am	21XX41	
11.09.2023	02.00 pm to 03.30 pm	21XX45	
12.09.2023	09.30 am to 11.00 am	21XX42	
12.09.2023	02.00 pm to 03.30 pm	21KSK/KBK/CIP47	
13.09.2023	09.30 am to 11.00 am	21XX43	
13.09.2023	02.00 pm to 03.30 pm	· 21UHV49	
14.09.2023	09.30 am to 11.00 am	21XX44	

Head-Centralized IA Cell

PRINCIPAL 23

PRINCIPAL

Sri Salram College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106

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SCE/CIA/2022-23/EVEN/ 133 9

24.08.2023

CIRCULAR

Sub: Centralized IA Test - 3 Schedule - 2nd year - reg.

This is to inform that Centralized Internal Test – 3 for 2nd year is scheduled from 11.09.2023 to 14.09.2023. HODs and Dept. IA coordinators are requested to submit a hardcopy (One Set / Two Sets) of question paper with Scheme & Solution for their respective department subjects with invigilation details after IQAC verification to the Centralized IA Cell Coordinator (HOD-AIML) on or before 05.09.2023 through respective HOD.

Encl:

Note:

1. IA - Timetable

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PRINCIPAL
Sri Sairam College Of Engineerin
Sai Leo Nagar, Guddanahalli Pos

Anekal, Bengaluru - 562 106

If different faculty handling the same subject for different sections - one set of QP & Scheme per faculty.

If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty.

CC to : Chairman, SCE, Anekal.

: ALL HODs

: MR/Office/Lib/PLM/PED/Stores/Transport/Canteen

: Trust Office

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04/8/23.



Format No. FR-25a Rev. No.

Issue Date: 15.04.2016

24.08.2023

Centralized IA Test - 2

EVEN Semester

Academic Year: 2022-2023

IA Test - 2 - 1st Year (2nd Semester)

Date	Time	AIML/CSE/ISE	ECE/EEE/ME
04.09.2023	09.30 am to 11.00 am	BMATS201	BMATX201
04.09.2023	02.00 pm to 03.30 pm	BSFHK258	BIDTK258
05.09.2023	09.30 am to 11.00 am	BCHES202	ВРНҮХ202
05.09.2023	02.00 pm to 03.30 pm	BPWSK206	BPWSK206
06.09.2023	09.30 am to 11.00 am	BESCK204D	BESCK204D
06.09.2023	02.00 pm to 03.30 pm	BICOK207	BKSKK207/ BKBKK207
07.09.2023	09.30 am to 11.00 am	BPLCK205X	BPLCK205X
07.09.2023	02.00 pm to 03.30 pm	Regular Classes	BBEE203/BEME203

Head - Centralized IA Cell

PRINCIPAL 23

PRINCIPAL

Sri Sairam College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106

To circulate among Ist years Students

- Joy18/2027.





SCE/CIA/2022-23/EVEN/1338

24.08.2023

CIRCULAR

Sub: Centralized IA Test -2 Schedule - 1st year - reg.

This is to inform that Centralized Internal Test - 2 for 1st year (2nd Semester) is scheduled from 04.09.2023 to 07.09.2023. HODs and Dept. IA coordinators are requested to submit a hardcopy (One Set / Two Sets) of question paper with Scheme & Solution for their respective department subjects with invigilation details after IQAC verification to the Centralized IA Cell Coordinator (HOD-AIML) on or before 30.08.2023 through respective HOD.

Encl:

1. IA - Timetable

PRINCIPAL

Sri Sairam College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106

Note:

If different faculty handling the same subject for different sections - one set of QP & Scheme per faculty

If the same faculty handling the subject for different sections - Two sets of QP & Scheme per faculty

CC to : Chairman, SCE, Anekal.

: ALL HODs

: MR/Office/Lib/PLM/PED/Stores/Transport/Canteen

: Trust Office

To circulate among 181 years Subject handling jaculties.



SAIRAM COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047 Rev.No. 01 Issue Date: 15.04.2016

Review form of I.A. Blue Books T

Dept: ECE

Date: 29/0/22

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-1-	Controls.	Mrs. A. Arrivarasi	21EC019	P. Deepilca	Del 1A
กาโข	21EE43 arcuitet		21Eco11		Verified as
Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by : P. De

P. Degile

Approved by:



SAIRAM COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01 Issue Date: 15.04.2016

Review form of I.A - 2

Dept: ECE

Date: 18/8/25

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
(x) (x) 'f	Circuit f		1881EC029 1881EC029	P-Deepika.	Verified as per 1A Scheme
71			B2 2Ec402		P Ocquelle

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by

Approved by : _



Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Review form of I.A - 2

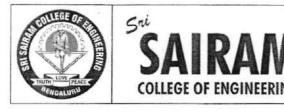
Dept: ECE

Date: 14/9/12.

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
(=) (Z) (A)	Circuite & Conhols		1821ECOOS 1821ECOIS 1821ECO18 1821ECOHI 1821ECOSI	P. Perpilca.	Per 1A Scheme. P-Dague
	*			## 1 	

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by: P.Oeculor
Approved by:



Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01 Issue Date: 15.04.2016

Review form of I.A. Blue Books

Internal Test- 1

Department: Electronics & Communication Engineering.

Date: 14 17 /23

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A. Blue Books	Reviewed By	Remarks
工[区]	Ciculs & Controls.	Prof. Savithatis	15B21EC022 15B21EC061 15B21EC071 15B21EC081 15B21EC092	S. Croetha	valued as per Scheme

Note: - Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by : P. Oscipelle

Approved by : _______



SAIRAM COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047 Rev.No. 01 Issue Date: 15.04.2016

Review form of I.A. Blue Books

Dept: ECE

JA2

Date: 28 18 23

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
国四	21EC43 Cicillo & " Controls	n:Savitha:	18B21EC053 18B21EC062 18B21EC073 18B21EC073	28/8/23	20
			ISB21ECTO98		28/8/23

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by



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Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Review form of I.A. Blue Books

Dept:

IA3

Date: 16/9/23

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
口/	21EC43 My Circulto e Controls.	ls Savitka.HS	15B21EC080 1SB21EC086 1SB21EC095 1SB21EC099 1SB21EC099	16/9/13	Valued as per I A 5 chame

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by : Pour



SAIRAM COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01 Issue Date: 15.04.2016

Review form of I.A. Blue Books

Dept: ECE

Date: 6/4/23

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
III /	Microcove S Andenna	Mr. Verugoja	15820E0084 15820E0084 15820E008 15820E008	Mr. Sugantin	Verified as pen in norms.

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by



Sni

Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Dept: ECE

Review form of I.A. Blue Books 2

Date: 5/6/22

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
TH)	Miaoware E Antenna.	Mr. Venugopal	1,5820EC018. 15820EC010 15820EC002 15820EC011	Mr. Sugantis.	Verified as per 110 monnu

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by



SARAM COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01 Issue Date: 15.04.2016

Review form of I.A. Blue Books

Dept: FCE

Date: 10/4/23

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
TI)	Microave E. Antonia.	Ma. Verugospil	18820EC491 18820EC041 18820EC086 18820EC084		Verified as Per IP norma

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by : PC

P. Deguer



Sni

Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Review form of I.A. Blue Books

ECE Dept:

Date: 8/4/23

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
Wyn gkgem	Wisneles 4 Cellular Commentication	Mar. Santhadh Eumar.N	1.5819EC001 1.5819EC012 1.5819EC021 1.5819EC040	Mors, K. Mohautti	herifed of Jerene

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by :



SAIRAM COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047 Rev.No. 01 Issue Date: 15.04.2016

Review form of I.A. Blue Books

Dept:

ECE

Date:

29/4/23

	class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
7 8	Ign Kzem	wineles 4 cellular communication	Mr. Som Hosh Jumar, N	13B19 E CO22 13B19 E CO22 13B19 E CO35 13B19 E CO43	M91s. E. Mohantt	verified of fer scheme
	W.					
		a	14.		9	

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by :



SAIRAM COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047 Rev.No.

Issue Date: 15.04.2016

Review form of I.A. Blue Books

Dept: ECE

Date:

13/5/23

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
II yn ghlyen	wigeles 4 allular communication	Mar- Santhah Euwar N	18B19EC025 18B19EC025	Mrs. 5. Mohavith	Verified of fer Scheme
			13B19EC051	~	

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by :





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 Even Sem)

Course Name:	Circuits and Control			Date:	00.07.2022
Course Code :	21EC43	Sem:	IV		08.07.2023
Staff Name:	Mc Couitha II C	Sein:	10	Max. Marks:	50
Juli Walle:	Ms. Savitha H S	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer – 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
R	Bu	4BM.
Signature & Name	Signature & Name	Signature & Name
	By	
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Prof. S Geetha Assistant Professor, Dept. of ECE SCE, Anekal – 562106	Dr. A. Poonguzhali Professor& Head, Dept. of ECE SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 Even Sem)

Course Name:	Microwaves & Antennas			Date:	29.04.2023
Course Code:	18EC63	Sem:	VI	Max. Marks:	50
Staff Name:	Prof. P. Venugopal	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
Signature & Name	Signature & Name	Signature & Name
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Prof. S. Geetha Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Dr. A. Pooriguzhali Professor& Head, Dept. of ECE SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23EvenSem)

Course Name:	Wireless & Cellular Networks			Date:	03.04.2023
Course Code :	18EC81	Sem:	VIII	Max. Marks:	50
Staff Name:	Prof. Santosh Kumar N	Con		· ium rating.	
	11	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Dr.T.N Prabakar Professor, Dept. of ECE SCE, Anekal - 562106	Dr. A. Poonguzhali Professor& Head, Dept. of ECE - SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-II

(Academic Year 2022-23 Even Sem)

Course Name:	Circuits and Control			Date:	17.08.2023
Course Code:	21EC43	Sem:	IV	Max. Marks:	50
Staff Name:	Prof. H.S Savitha	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
Signature & Name	Signature & Name	Signature & Name
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Prof. S Geetha Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Dr. A. Poonguzhali Professor& Head, Dept. of ECE SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-II

(Academic Year 2022-23 Even Sem)

Course Name:	Microwaves & Antennas			Date:	30.05.2023
Course Code:	18EC63	Sem:	VI	Max. Marks:	50
Staff Name:	Prof. P. Venugopal	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
Signature & Name	Signature & Name	Signature & Name
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Prof. S. Geetha Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Dr. A. Poonguzhali Professor& Head, Dept. of ECE SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-II

(Academic Year 2022-23EvenSem)

Course Name:	Wireless & Cellular Networks			Date:	29.04.2023
Course Code :	18EC81	Sem:	VIII	Max. Marks:	50
Staff Name:	Prof. Santosh Kumar N	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	. Approved by (Head of the Department)
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Dr.T.N Prabakar Professor, Dept. of ECE SCE, Anekal - 562106	Dr. A. Poonguzhali Professor& Head, Dept. of ECE SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-III

(Academic Year 2022-23 Even Sem)

Course Name:	Circuits and Control			Date:	13.09.2023
Course Code:	21EC43	Sem:	IV	Max. Marks:	50
Staff Name:	Prof. H.S Savitha		Α.	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	
	- 1 on the dayling	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Prof. S. Geetha Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Signature & Name Dr. A. Poonguzhali Professor& Head, Dept. of ECI





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-III

(Academic Year 2022-23 Even Sem)

Course Name:	Microwaves & Antennas			Date:	07.07.2023
Course Code:	18EC63	Sem:	VI	Max. Marks:	50
Staff Name:	Prof. P. Venugopal	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
Signature & Name	Signature & Name	Signature & Name
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Prof. S. Geetha Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Dr. A. Poonguzhali Professor& Head, Dept. of ECE SCE, Anekal - 562106





Format No. FR-046 Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTERNAL ASSESSMENT TEST-III

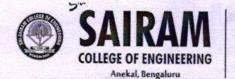
(Academic Year 2022-23EvenSem)

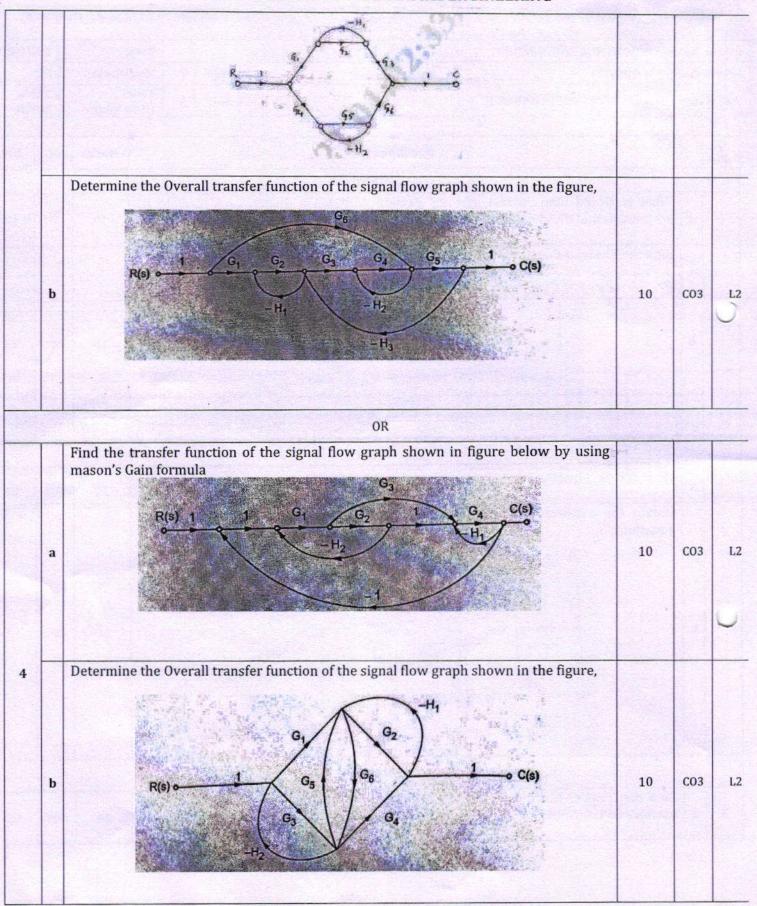
Course Name:	Wireless & Cellular Networks			Date:	11.05.2023
Course Code:	18EC81	Sem:	VIII	Max. Marks:	50
Staff Name:	Prof. Santosh Kumar N	Sec:	A	Time (Hrs: min):	1:30

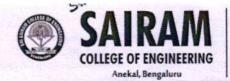
S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
Prof. P. Venugopal Assistant Professor, Dept. of ECE SCE, Anekal - 562106	Dr.T.N Prabakar Professor, Dept. of ECE SCE, Anekal - 562106	Dr. A. Poonguzhali Professor& Head, Dept. of ECE SCE, Anekal - 562106







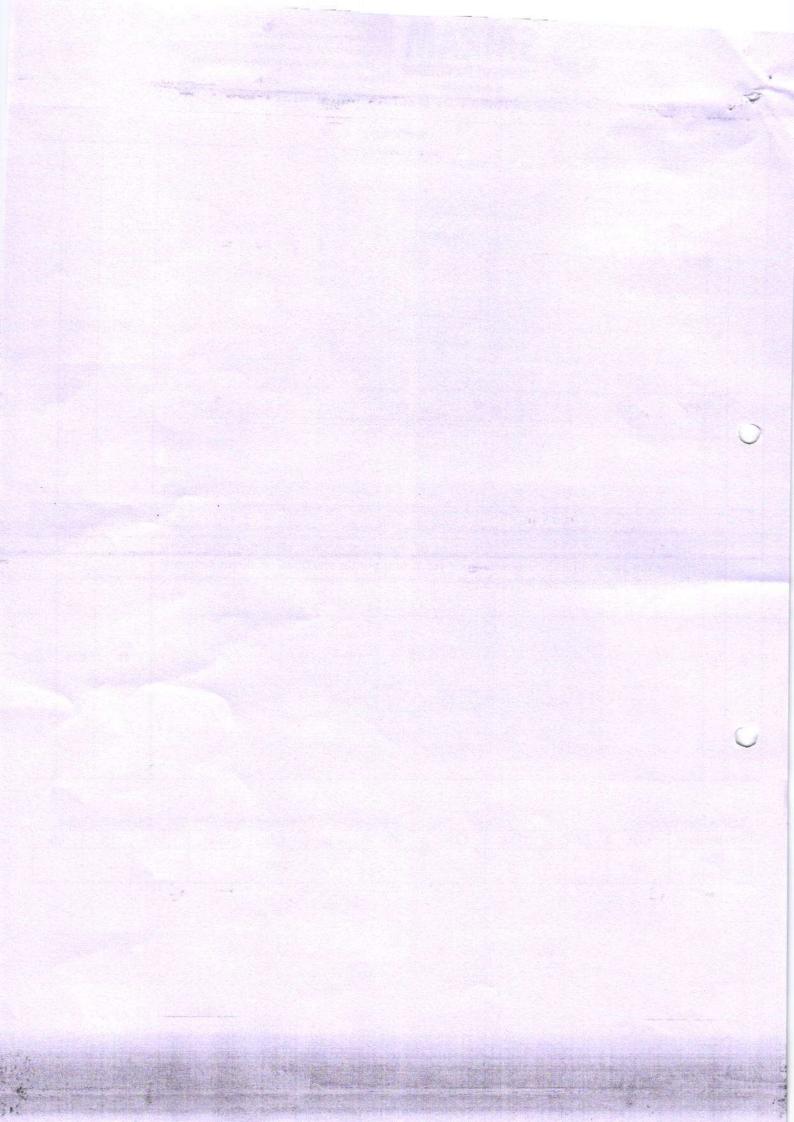
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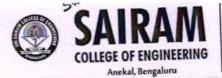
Internal Assessment Test 1

(Academic Year 2022-23 ODD Sem)

Course Name:	CONTROL ENGINEERING	Date:	19.10.2		
Course Code :	18ME71	SEM	7	Max. Marks:	50
Staff Name:	Dr. SIVASAKTHI BALAN K	SEC	A	Time (Hrs.: min):	1 Hrs. 30Min

Q. No		Questions	Marks	со	ВТІ
		MODULE 1			
	a	What is closed loop control system? Explain with block diagram. Also state its advantages and disadvantages.	10	CO1	L2
0	b	Find the Transfer Function of Mechanical System shown below R R R R R R R R R R R R R		CO1	L2
	100	OR			
	a	What are the Ideal Requirements of Control system? Explain them briefly	10	C01	L2
		Obtain the mathematical model for the system and write their corresponding equations.			
	b	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10	C01	L2
		MODULE 3	1 1 1 2 2		
3	a	Find the transfer function of the signal flow graph shown in figure below by using mason's Gain formula	10	CO3	L2





. C. Bhasha.

-Ven	MODULE 1			
5	Find the Transfer Function of Mechanical System shown below A TO THE TRANSFER FUNCTION OF Mechanical System shown below A TO THE TRANSFER FUNCTION OF Mechanical System shown below A TO THE TRANSFER FUNCTION OF Mechanical System shown below A TO THE TRANSFER FUNCTION OF MECHANICAL SYSTEM SHOWN BELOW A TO THE TRANSFER FUNCTION OF MEC	10	C01	L
	OR			
6	Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits using (i) F-V Analogy (ii) F-I Analogy	10	C01	L

Marks Distribution						L1-L6 – Blooms Taxonomy Level: C01-C05					
Particulars	CO1	CO2	CO3	CO4	C05	L1	L2	L3L	L4	L5	L6
Max. Marks	60		40				100			-11 =1	



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* The crowd signal generated by the ever detector is the difference between the superence Signal and feedback signal. I c cop: most between

The controller modifies and amplifies the curet Signal to Produce better control action.

Advantage of closed loop Systems

- 1. The closed loop systems are accusate.
- 2. The doted loop systems are accurate even in the
- Paresence of non-linearities.
- 3. The sonsitivity of the Systems may be made small to make the system more stable.
- 4. The closed loop systems are lux officed by notes

Disadvantages of doled loop systems.

- 1. The closed loop systems are complex and costly.
- 2. The feedback in closed loop system may lead to sullator susponse.
- 3. The feedback reduces overall gain of the System
- to stability is a major problem in used loop system and more care is needed to during a stable during loop system.



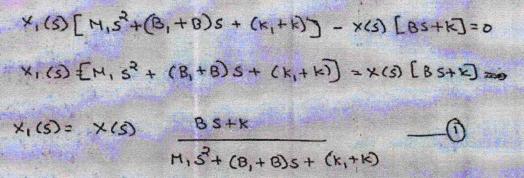
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Internal Assessment Test 1 (SCHEME & SOLUTION)

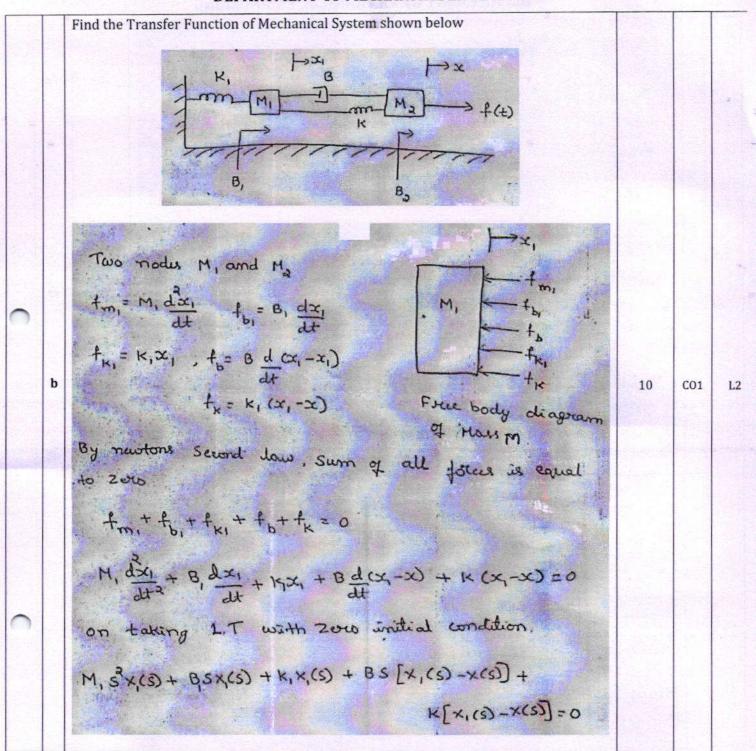
(Academic Year 2022-23 ODD Sem)

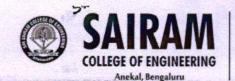
O Nome	CONTROL ENGINEERING			Date:	19.10.2
GO LLI DO		SEM	7	Max. Marks:	50
Course Code:	18ME71	272		Time	1 Hrs.
Staff Name:	Dr. SIVASAKTHI BALAN K	SEC	A	(Hrs.: min):	30Min

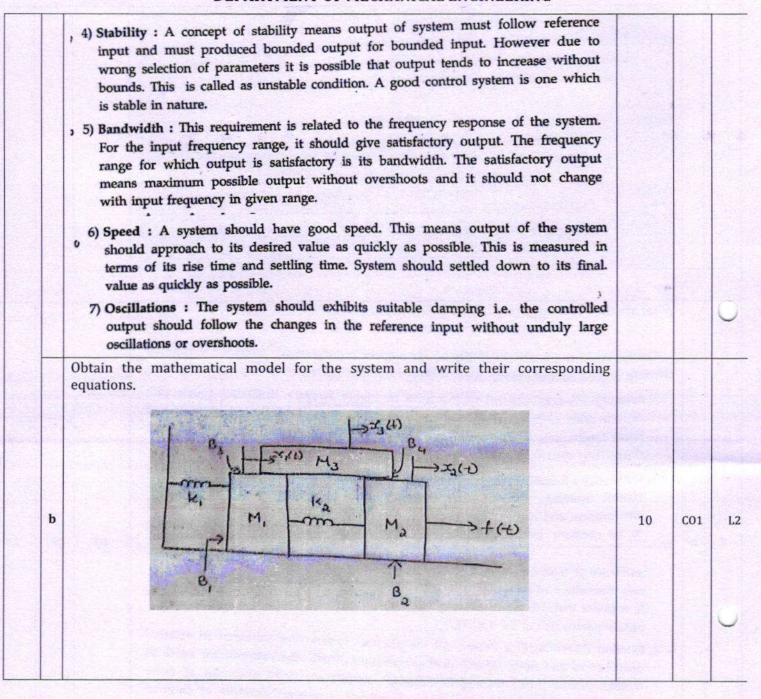
Q. No	Questions	Marks	СО	BTI
110	MODULE 1			
	What is closed loop control system? Explain with block diagram. Also state its advantages and disadvantages. Closed loop Systems Exoret Signal Signal Systems Represent Systems Represent Signal Systems (plant) C(4) Signal Systems (plant) C(4)			
1 a	Fig: closed loop Systems. * Control Systems in which output has an effect upon the input quantity in scale to maintain the derived output value are called closed loop Systems. * The general block diagram of automatic control System is shown in fig. It consists of ever's detector, controller, a plant and feedback Path elements. * The sequence input coverponds to derived output. The feedback path elements convert the output to a signal of the same type as that of the supernee signal of the same type as that of the supernee signal of the same type as that of the supernee signal of the same type as that of the supernee signal and is fed to the ever's detector.	10	C01	L2



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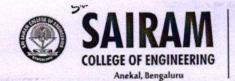


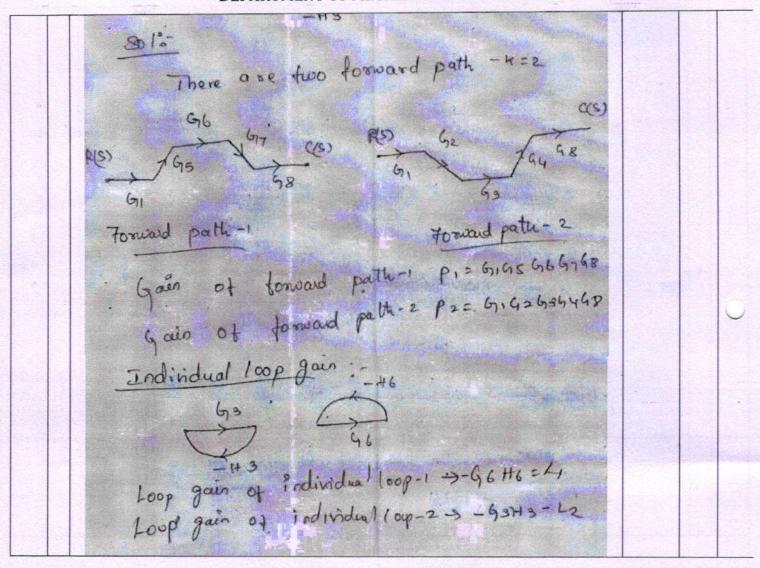


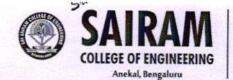
effects of undesirable disturbances.

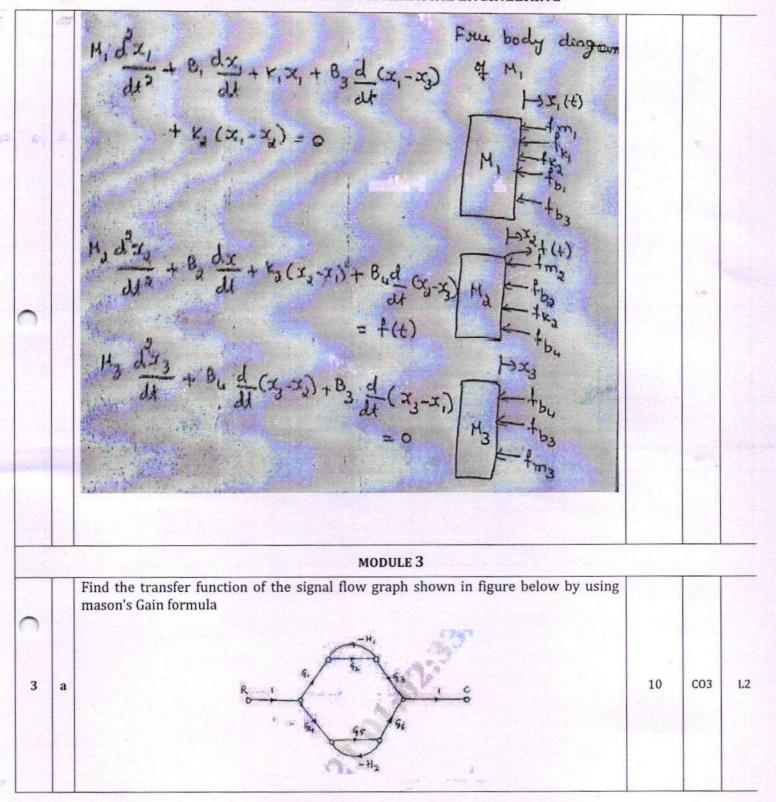
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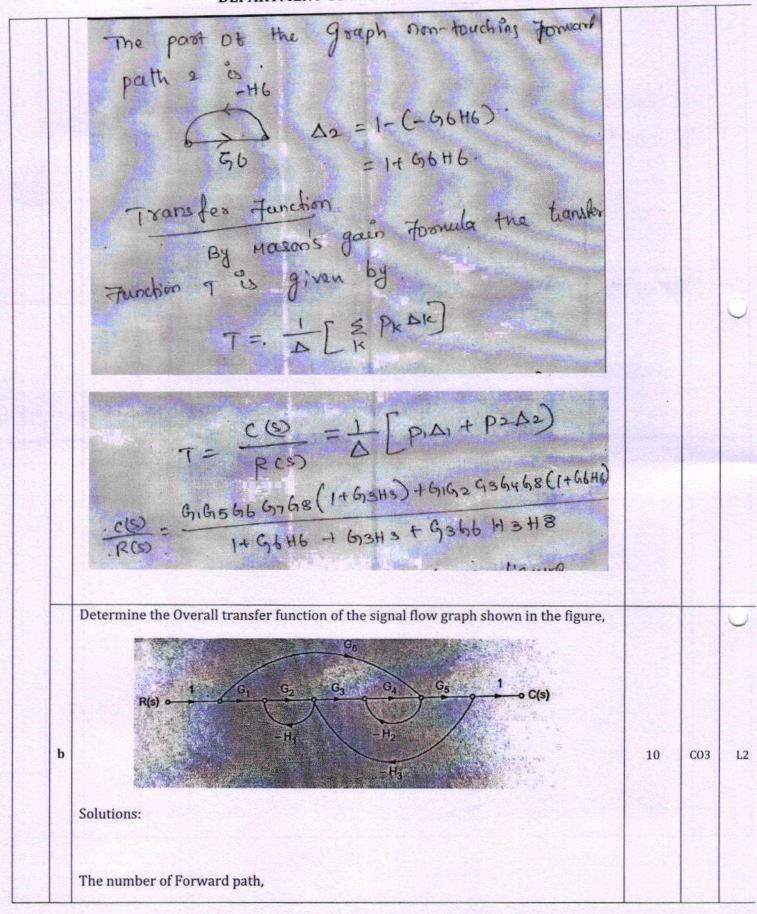
		DEFINITION OF PROGRAMMOND ENGINEERING	ar areas	-	
		x(s) [(mas2+(B2+B)s+k)(M152+(B,+B)s+(K1+k))] = =(s) M152+(B,+B)s+(K1+K)			
	- 1	: Triangler function of the System us	p		
		\times (S) $M_1S^2+(B_1+B)S+(K_1+E)$			
	F(3) [M35+(B3+B)5+K][M,5+(B+B)5+(K,+K)]-(3)	F(3) [M33+(B+B)5+K][M,3+(B+B)5+(K,+K)]-(BS+D)			
		OR			
		What are the Ideal Requirements of Control system? Explain them briefly			
		Control systems are always designed for a specific purpose. To achieve the required objective, a good control system must satisfy the following requirements. a.1) Accuracy: A good control system must be highly accurate. It should operate with as little error as possible. The open loop systems are generally less accurate and hence feedback is deliberately introduced to reduce the error in the system. Such closed loop system requires a design so that steady state error tends to zero. 2) Sensitivity: Sensitivity requirements often play an important role in the design of control systems. All physical elements have properties that change with environment and age and the parameters of control systems can not be considered to be constant over the entire operating life of the system e.g. the winding			
2 a		resistance of motor changes with respect to time. A good control system should be very insensitive to such parameter variations but sensitive to the input commands. It requires that, its performance should not be affected by small changes in the certain parameters of the system. 2 3) External disturbance or noise: All the physical systems are subjected to external disturbances and noise signals; during operation. Brush and commutator noise in motors, thermal noise voltage in electronic circuits are good examples of noise while effect of wind on performance of antenna is a good example of external disturbance. A requirement of a good control system is that considerations should be given at the time of designing so that system is insensitive to noise and external disturbances but sensitive to the input commands. It should be able to reduce the	10	CO1	L

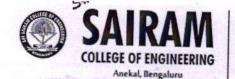




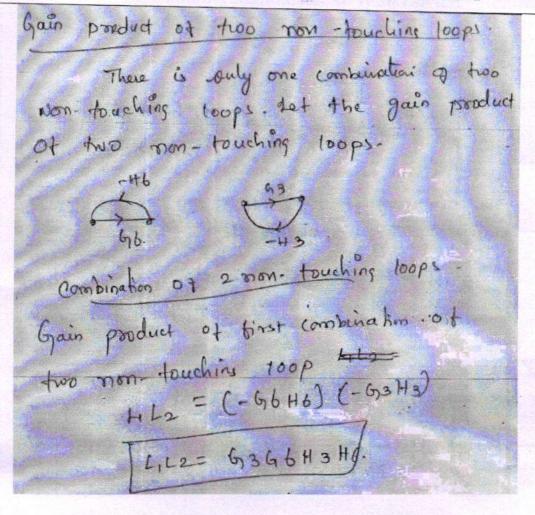








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Calculation of A and AR

Calculation of A and AR $\Delta = 1 - (L_1 + L_2) + L_1 L_2$ $\Delta = 1 + G_1 G_1 H_2 + G_2 H_3 + G_3 G_4 G_5 H_3 H_6.$ The Past of He graph Mon-touching

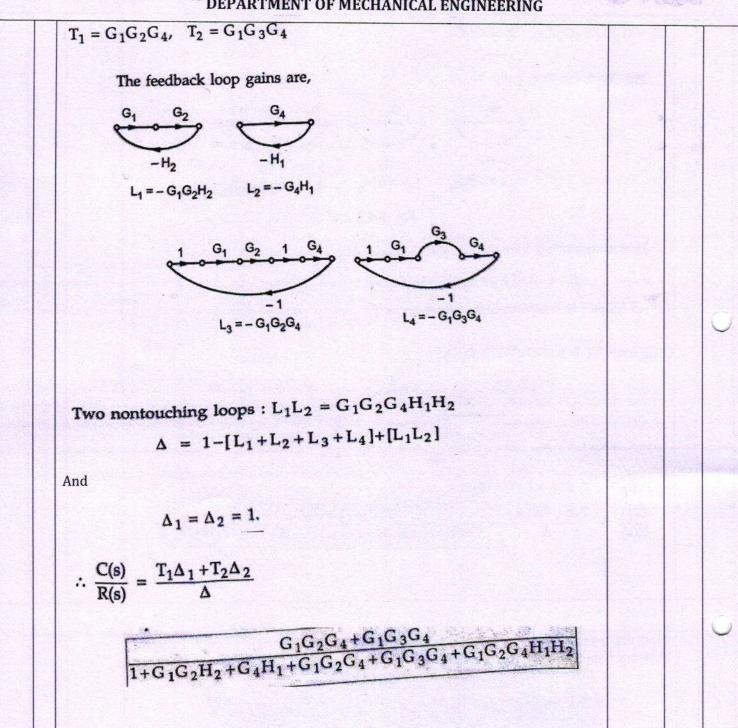
The Past of He gra

10

CO3

L2

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Determine the Overall transfer function of the signal flow graph shown in the figure,

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 $T_1 = G_1G_2G_3G_4G_5$, $T_2 = G_6G_5$

The feedback loop gains are,

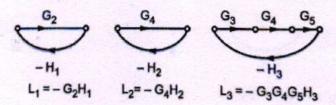


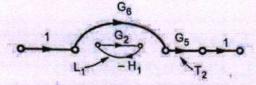
Fig. 7.5.6 (a)

Two nontouching loops = $L_1L_2 = G_2G_4H_1H_2$

$$\Delta = 1 - [L_1 + L_2 + L_3] + [L_1 L_2]$$

All loops are touching to T_1 hence $\Delta_1 = 1$

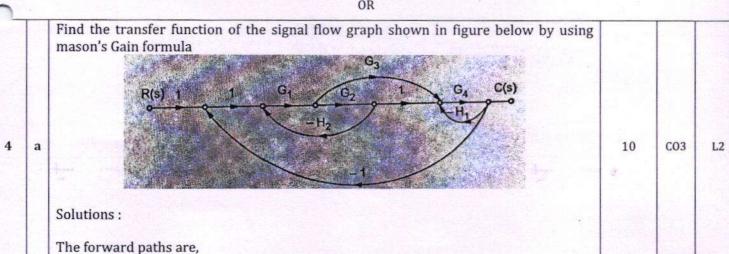
The loop L₁ is nontouching to T₂

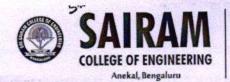


$$\Delta_2 = 1 - L_1 = 1 + G_2 H_1$$

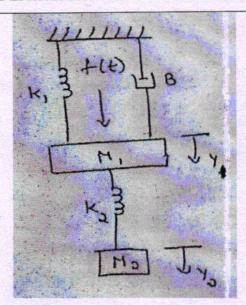
$$\frac{C(s)}{R(s)} = \frac{T_1\Delta_1 + T_2\Delta_2}{\Delta} = \frac{G_1G_2G_3G_4G_5 + G_6G_5(1 + G_2H_1)}{1 + G_2H_1 + G_4H_2 + G_3G_4G_5H_3 + G_2G_4H_1H_2}$$

OR

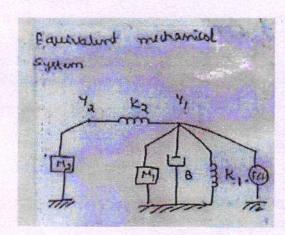




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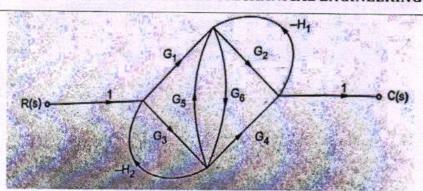
Solution:



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Solutions

The forward paths are,

$$T_1 = 1 \cdot G_1 \cdot G_2 \cdot 1 = G_1 G_2, \qquad T_2 = 1 \cdot G_3 \cdot G_4 \cdot 1 = G_3 G_4$$

$$T_3 = 1 \cdot G_1 \cdot G_6 \cdot G_4 \cdot 1 = G_1 G_6 G_4, \quad T_4 = 1 \cdot G_3 \cdot G_5 \cdot G_2 \cdot 1 = G_2 G_3 G_5$$

Individual loops are

$$L_1 = -G_2 H_1$$
, $L_2 = -G_3 H_2$, $L_3 = G_5 G_6$
 $L_4 = -G_4 H_1 G_6$, $L_5 = -G_1 G_6 H_2$

Combinations of two non touching loops are

- i) L₁ and L₂
- ii) No combination of three non touching loops

$$\Delta = 1 - (L_1 + L_2 + L_3 + L_4 + L_5) + (L_1 L_2)$$

For all the forward paths all the loops are touching hence $\Delta_1 = \Delta_2 = \Delta_3 = \Delta_4 = 1$

Hence
$$\frac{C(s)}{R(s)} = \frac{\sum T_K \Delta_K}{\Delta} = \frac{T_1 \Delta_1 + T_2 \Delta_2 + T_3 \Delta_3 + T_4 \Delta_4}{\Delta}$$

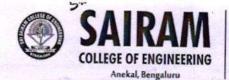
$$\frac{G_{1}G_{2}+G_{3}G_{4}+G_{1}G_{6}G_{4}+G_{2}G_{3}G_{5}}{1+G_{2}H_{1}+G_{3}H_{2}-G_{5}G_{6}+G_{5}G_{6}H_{1}+G_{1}G_{6}H_{2}+G_{2}G_{3}H_{1}H_{2}}$$

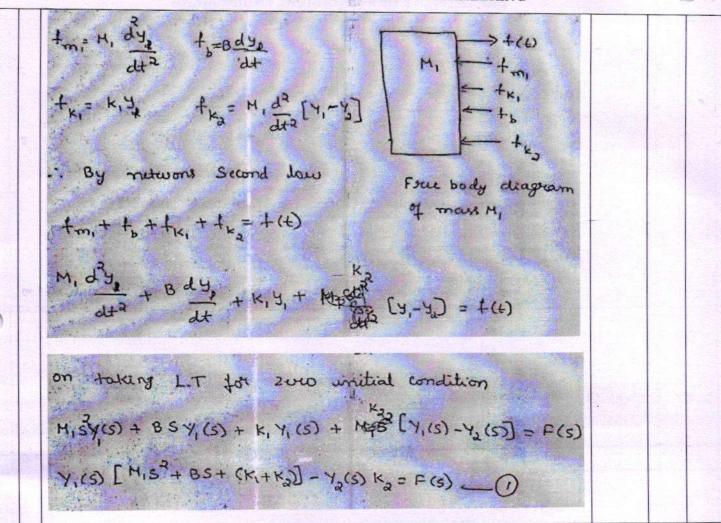
MODULE 1

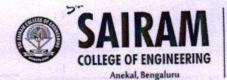
		Find the Transfer Function of Mechanical System shown below	10	004	
5	a		10	C01	LZ

L2

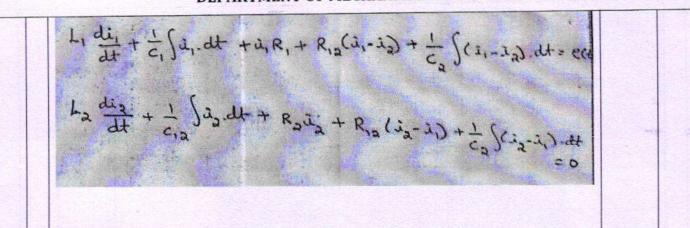
By national second dow $f_{m_2} + f_{k_1} = 0$ $H_3 \frac{d^3y_3}{dt^2} + K_2(Y_2 - Y_1) = 0$ on taking 1. T $H_3 s^3 Y_3(s) + K_2[Y_1(s) - Y_1(s)] = 0$ $Y_2(s) \left[H_3 s^3 + K_2 \right] = Y_1(s) K_2$ $Y_1(s) = Y_2(s) \frac{H_2 s^3 + K_2}{K_2} = 0$ $Y_3(s) \left[\frac{M_3 s^3 + K_2}{K_3} \right] \left[\frac{M_3 s^3 + K_2}{K_3} \right] - Y_3(s) K_3 = F(s)$ $Y_3(s) \left[\frac{(M_3 s^3 + K_3)}{K_3} \right] \left[\frac{M_3 s^3 + K_2}{K_3} \right] \left[\frac{M_3 s^3 + K_3}{K_3} \right] \left[\frac{M_3 s^3 + K_3}{K_3} \right] = F(s)$ $H_3(s) \left[\frac{(M_3 s^3 + K_3)}{K_3} \right] \left[\frac{M_3 s^3 + K_3}{K_3} \right] \left[\frac{M_3 s^3 + K_3}{K_3} \right] = F(s)$ OR Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits using (i) F-I Analogy (ii) F-I Analogy		+m2 M2 dt2 + k2 = K2(42-4) M2 = +k3		
Maddy + $k_2(Y_1-Y_1)=0$ on taking L.T Masday 1.T Masday 3; (s) + $k_1[Y_1(s)-Y_1(s)]=0$ $y_2(s)[Masday + k_2] - y_1(s)k_2 = 0$ $y_3(s)[Masday + k_3] = y_1(s)k_2$ $y_1(s) = y_2(s) \frac{Masday + k_2}{k_3}$ $y_1(s) = y_2(s) \frac{Masday + k_3}{k_3}$ $y_1(s) = y_2(s) \frac{Masday + k_3}{k_3}$ $y_1(s) = y_2(s) \frac{Masday + k_3}{k_3}$ $y_2(s) \frac{Masday + k_3}{k_3} Masda$				
on Eaking 1.T $M_3 S^3 Y_3(S) + K_3 [Y_2(S) - Y_1(S)] = 0$ $Y_2(S) [M_3 S^3 + K_3] - Y_1(S) K_3 = 0$ $Y_3(S) [M_3 S^3 + K_3] = Y_1(S) K_3$ $Y_1(S) = Y_2(S) \frac{M_2 S^3 + K_2}{K_3} $ $Y_2(S) [M_3 S^3 + K_3] [M_1 S^3 + 3S + (K_1 + K_2)] - Y_2(S) K_3 = F(S)$ $Y_3(S) [M_3 S^3 + K_3] [M_1 S^3 + 3S + (K_1 + K_2)] - Y_2(S) K_3 = F(S)$ $Y_3(S) [M_3 S^3 + K_3] [M_1 S^3 + 3S + (K_1 + K_2)] - K_3^2$ $Y_3(S) [M_3 S^3 + K_3] [M_1 S^3 + 3S + (K_1 + K_2)] - K_3^2$ $Y_3(S) [M_3 S^3 + K_3] [M_1 S^3 + 3S + (K_1 + K_2)] - K_3^2$ OR Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits 10 co1				
$H_{3}S^{2}Y_{3}(S) + Y_{5}[Y_{2}(S) - Y_{1}(S)] = 0$ $Y_{3}(S) \left[H_{3}S^{2} + K_{3} \right] - Y_{1}(S)K_{3} = 0$ $Y_{3}(S) \left[H_{3}S^{2} + K_{3} \right] = Y_{1}(S)K_{3}$ $Y_{1}(S) = Y_{2}(S) \frac{H_{3}S^{2} + K_{2}}{K_{3}} = 0$ $Y_{3}(S) \left[\frac{M_{3}S^{2} + K_{3}}{K_{3}} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - Y_{3}(S)K_{3} = F(S)$ $Y_{3}(S) \left[\frac{(M_{3}S^{2} + K_{3})}{K_{3}} \left(M_{1}S^{2} + BS + (K_{1} + K_{2}) \right) - K_{3}^{2} \right] = F(S)$ $Y_{3}(S) \left[\frac{(M_{3}S^{2} + K_{3})}{K_{3}} \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2} \right]$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] \left[M_{1}S^{2} + BS + (K_{1} + K_{2}) \right] - K_{3}^{2}$ $P(S) = \left[H_{3}S^{2} + K_{3} \right] + \left[H_{3}S^{2} + K_{3} \right] $		42 47 + K2(1-A)=0		
$Y_{3}(s) \left[M_{3}s^{3} + k_{3} \right] - Y_{1}(s)k_{3} = 0$ $Y_{3}(s) \left[H_{3}s^{3} + k_{3} \right] = Y_{1}(s)k_{3}$ $Y_{1}(s) = Y_{2}(s) \frac{M_{3}s^{3} + k_{2}}{K_{3}} $ $Y_{2}(s) \left[\frac{M_{3}s^{3} + k_{3}}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - Y_{2}(s)k_{3} = F(s)$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{2}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{5} + (k_{1} + k_{2}) \right] - K_{3}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{2} + (k_{1} + k_{2}) \right] - K_{3}^{3}$ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{2} + (k_{1} + k_{2}) \right] - K_{3}^{3} $ $Y_{3}(s) \left[\frac{(M_{3}s^{3} + k_{3})}{K_{3}} \right] \left[M_{1}s^{3} + B_{2} + (k_{1} + k_{2}) \right] - K_{3}^{3} $ $Y_{3}(s) \left[(M_{3$		《蓝旗歌》		
$Y_{2}(s) \left\{ H_{3}s^{2} + k_{3} \right\} = Y_{1}(s)k_{2}$ $Y_{1}(s) = Y_{2}(s) \frac{H_{3}s^{2} + k_{2}}{k_{3}} = 0$ Substituting equal in (i) $Y_{2}(s) \left[\frac{M_{2}s^{2} + k_{2}}{k_{3}} \right] \left[M_{1}s^{2} + Bs + (k_{1} + k_{2}) \right] - Y_{2}(s)k_{3} = F(s)$ $Y_{3}(s) \left[\frac{(M_{3}s^{2} + k_{2})}{k_{3}} \right] \left(M_{1}s^{2} + Bs + (k_{1} + k_{2}) \right) - K_{3}^{2} = F(s)$ $Y_{3}(s) \left[\frac{(M_{3}s^{2} + k_{2})}{k_{3}} \right] \left[M_{1}s^{2} + Bs + (k_{1} + k_{2}) \right] - K_{3}^{2}$ OR Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits		Has ない+ ないい- Y,(5)=0		
Substituting equal on (1) $ \begin{array}{lll} Y_{2}(S) & = Y_{2}(S) & \frac{M_{2}S^{2}+K_{2}}{K_{3}} & = F(S) \\ Y_{3}(S) & \left[\frac{M_{3}S^{2}+K_{3}}{K_{3}}\right] & \left[M_{1}S^{2}+B_{S}+(K_{1}+K_{2})\right] - Y_{2}(S)K_{3} & = F(S) \\ Y_{3}(S) & \left[\frac{(M_{3}S^{2}+K_{3})}{K_{3}}\right] & \left[M_{1}S^{2}+B_{S}+(K_{1}+K_{2})\right] - K_{2}^{2} & = F(S) \end{array} $ OR Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits 10 Co1		42 (S) [H353+ K] - Y(S) K3 = 0		•
Substituting equal on (1) $ \frac{1}{3}(S)\left[\frac{M_{3}S^{2}+k_{3}}{k_{3}}\right]\left[M_{1}S^{2}+B_{5}+(k_{1}+k_{3})\right]-1_{2}(S)k_{3}=F(S) $ $ \frac{1}{3}(S)\left[\frac{(M_{3}S^{2}+k_{3})}{k_{3}}\left(M_{1}S^{2}+B_{5}+(k_{1}+k_{3})\right)-k_{3}^{2}\right]=F(S) $ $ \frac{1}{3}(S)\left[\frac{(M_{3}S^{2}+k_{3})}{k_{3}}\left[M_{1}S^{2}+B_{5}+(k_{1}+k_{3})\right]-k_{3}^{2}\right]=F(S) $ OR Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits 10 CO1		Y2 (5) [H2 5+ K] = 4,(5) K2		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		$Y_{1}(s) = Y_{2}(s) \frac{M_{2}s^{2}+K_{2}}{K_{3}} $		
$\frac{1}{3}(S) \left[\frac{(H_2S^2+K_2)}{K_2} (M_1S^2+BS+(K_1+K_2))-K_2^2 \right] = F(S)$ $\frac{1}{3}(S) \left[\frac{1}{3}(S) + \frac{1}{$		Substituting equal in (1)		
$\frac{V_{3}(s)}{F(s)} = \frac{K_{3}}{[M_{3}S + K_{5}][M_{3}S + Bs + (K_{1} + K_{5})] - K_{5}^{2}}$ OR Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits 10 C01		72(5) [M25+ K2] [M,5+ BS+(K,+K3)] - 75(5) K3 = F(5)		
OR Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits 10 C01		42 (S) [(M257+ K2) (M157+ B5+ (K1+42)) - K2] = F(5)		
OR Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits 10 C01		Y ₂ (5) K ₂		
Draw the equivalent mechanical system of the given system shown in the figure. Hence the set of equilibrium equations for it and obtain electrical analogous circuits 10 CO1		F(s) [M23+K][M,3+B5+(K,+K)]-K3		
Hence the set of equilibrium equations for it and obtain electrical analogous circuits 10 CO1	TO STATE OF THE ST	OR		
		Hence the set of equilibrium equations for it and obtain electrical analogous circuits	10	CO1







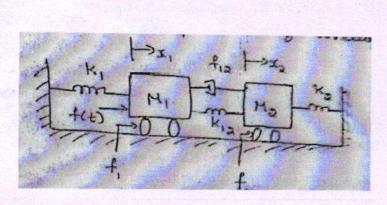
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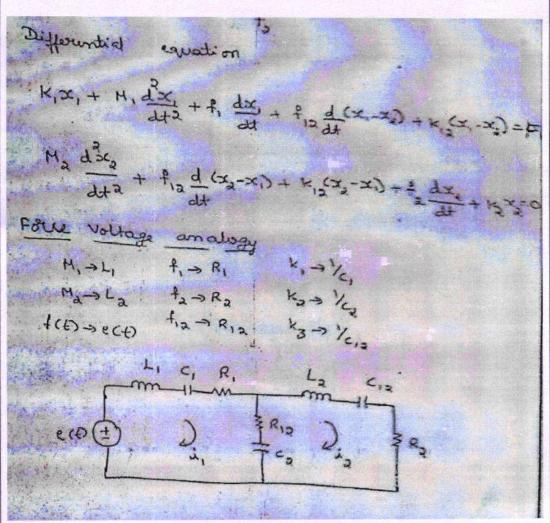
L1-L6 - Blooms Taxonomy Level: C01-C05 - Course Outcome Marks Distribution Particulars CO₂ **CO3** CO4 CO1 CO5 L1 L2 L3L L4 L5 L6 Max. 60 40 100 Marks

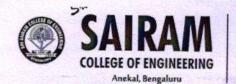


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Solutions





		MODULE 3			
3	а	Find the transfer function of the signal flow graph shown in figure below by using mason's Gain formula $ G_3 \qquad G_5 \qquad G_6 \qquad G_4 \qquad G_7 \qquad G_7 \qquad G_7 $	10	CO3	L2
	b	Determine the Overall transfer function of the signal flow graph shown in the figure, $\begin{array}{cccccccccccccccccccccccccccccccccccc$	10	C03	L2
4	а	Find the transfer function of the signal flow graph shown in figure below by using mason's Gain formula R 1 1 G G G G G 1 1 C G G G G G G G G G G	10	C03	<u></u>
	b	Determine the Overall transfer function of the signal flow graph shown in the figure,	10	C03	L2



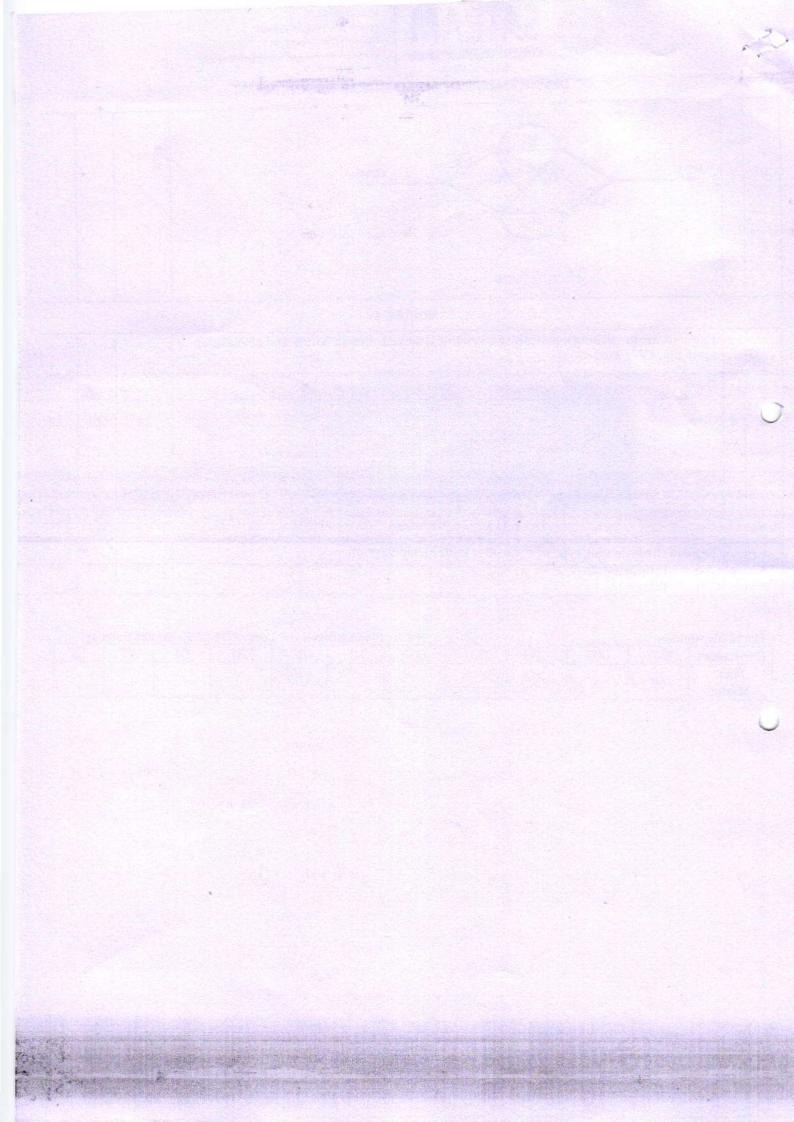
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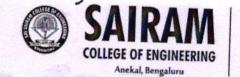
Internal Assessment Test 1

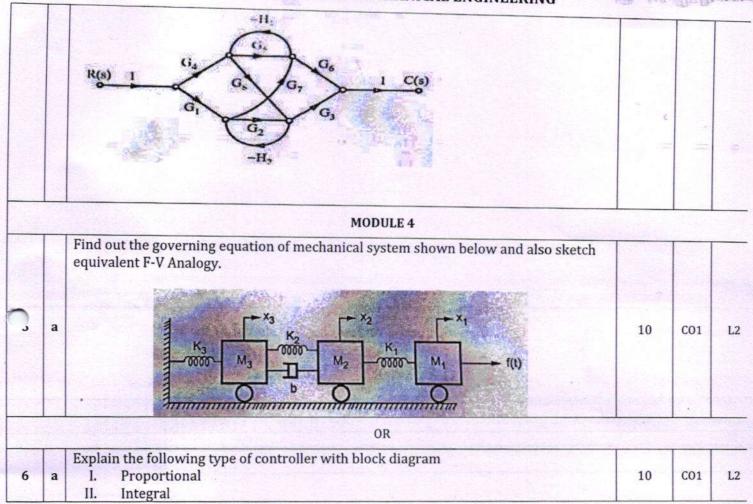
(Academic Year 2022-23 ODD Sem)

Course Name:	CONTROL ENGINEERING			Date:	19.10.20
Course Code :	18ME71	SEM	7	Max. Marks:	50
Staff Name:	Dr. SIVASAKTHI BALAN K	SEC	A	Time (Hrs.: min):	1 Hrs. 30Min

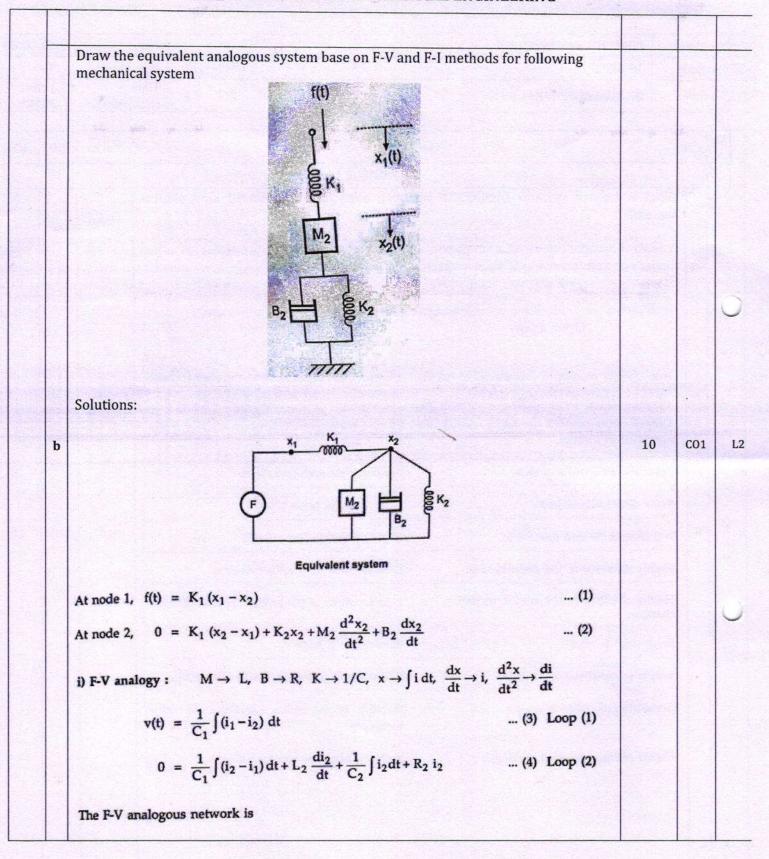
Q. No		Questions	Marks	со	BTI
		MODULE 1			
	a	What is control system? Distinguish between open loop and closed loop control system?	10	CO1	L2
1	b	Draw the equivalent analogous system base on F-V and F-I methods for following mechanical system f(t) K ₁ K ₂ K ₂ K ₂ ** ** ** ** ** ** ** ** **	10	C01	L2
		OR			
	a	What are controllers? Explain with block diagram the PI controller?	10	CO1	L2
2	b	Find the transfer function of the system given below $ \frac{x_1(t)}{M_1} \frac{x_2(t)}{M_2} \frac{x_2(t)}{0000} $	10	CO1	L2

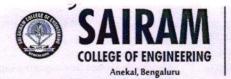






Marks Distrib	ution				L1-L6 -	Blooms T	axonomy I	evel: CO1-	-CO5 - Co	urse Outc	ome
Particulars	CO1	CO2	CO3	CO4	C05	L1	L2	L3L	L4	L5	L6
Max. Marks	60	26.50	40				100				





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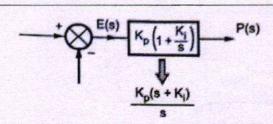
Internal Assessment Test 1

(Academic Year 2022-23 ODD Sem)

Course Name:	CONTROL ENGINEERING			Date:	19.10.20
Course Code :	18ME71	SEM	7	Max. Marks:	50
Staff Name:	Dr. SIVASAKTHI BALAN K	SEC	A	Time (Hrs.: min):	1 Hrs. 30Min

Q. No		Ques	tions	Marks	СО	BT
3 0			MODULE 1			
		system?	ween open loop and closed loop control rects, or regulates the behavior of other			
)		Open Loop	Closed Loop			
		Any change in output has no effect on the input i.e. feedback does not exists.	Changes in output, affects the input which is possible by use of feedback.			
		Output measurement is not required for operation of system.	Output measurement is necessary.			
	isten-	Feedback element is absent.	Feedback element is present.			
		Error detector is absent. 0 — D	Error detector is necessary.			
1	a	It is inaccurate and unreliable.	Highly accurate and reliable.	10	CO1	L2
		Highly sensitive to the disturbances.	Less sensitive to the disturbances.			
)		Highly sensitive to the environmental changes.	Less sensitive to the environmental changes.			
)		Bandwidth is small.	Bandwidth is large.			
		Simple to construct and cheap.	Complicated to design and hence costly.			
		Generally are stable in nature.	Stability is the major consideration while designing.			
		Highly affected by nonlinearities.	Reduced effect of nonlinearities.			

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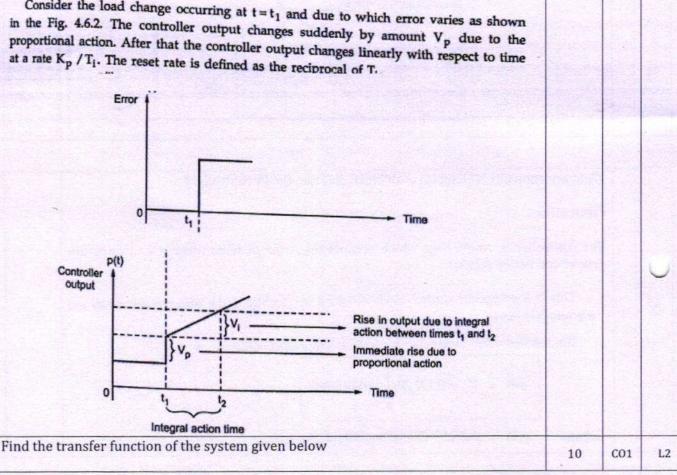
The Laplace transform of basic PI action,

$$P(s) = \left[K_p + \frac{K_p K_i}{s}\right] E(s)$$

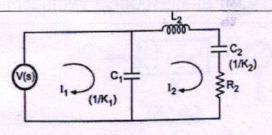
$$P(s) = K_p \left[1 + \frac{K_i}{s} \right] E(s)$$

The important advantage of this control is that one to one correspondence of proportional mode is available while the offset gets eliminated due to integral mode, the integral part of such a composite control provides a reset of the zero error output after a

Consider the load change occurring at $t = t_1$ and due to which error varies as shown in the Fig. 4.6.2. The controller output changes suddenly by amount Vp due to the proportional action. After that the controller output changes linearly with respect to time at a rate K_p / T_i . The reset rate is defined as the reciprocal of T_i



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ii) F-I analogy M
$$\rightarrow$$
C, B \rightarrow 1/R, K \rightarrow 1/L, x \rightarrow $\int v \, dt$, $\frac{dx}{dt} \rightarrow v$, $\frac{d^2x}{dt^2} \rightarrow \frac{dv}{dt}$

$$i(t) = \frac{1}{L_1} \int (v_1 - v_2) dt$$

... (5) Node (1)

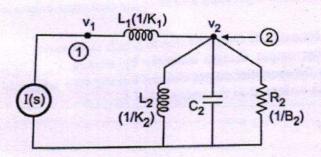
$$0 = \frac{1}{L_1} \int (v_2 - v_1) dt + C_2 \frac{dv_2}{dt} + \frac{v_2}{R_2} + \frac{1}{L_2} \int v_2 dt \qquad \dots (6) \text{ Node (2)}$$

10

CO1

L2

The F-I analogous system is



OR

What are controllers? Explain with block diagram the PI controller?

Controller

2

a

The controller is an element which accepts the error in some form and decides the proper corrective action.

This is a composite control mode obtained by combining the proportional mode and the integral mode.

The mathematical expression for such a composite control is,

$$p(t) = K_p e(t) + K_p K_i \int_0^t e(t)dt + p(0)$$

p(0) = Initial value of the output at t = 0where

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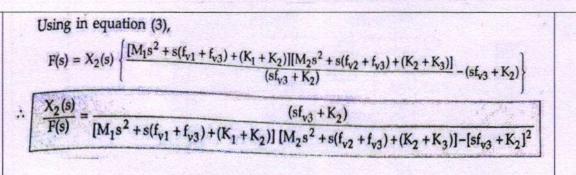
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10

CO3

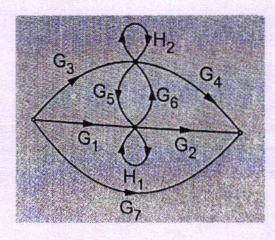
L2

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MODULE 3

Find the transfer function of the signal flow graph shown in figure below by using mason's Gain formula



Solutions:

3

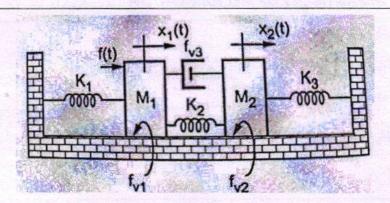
The various forward paths are,

 G_1 G_2 G_3 G_4 G_5 G_2 G_6 G_4 G_7 G_7 G_8 G_4 G_7 G_8 G_8 G_8 G_8 G_8 G_8 G_9 G_9

Indivitual loops

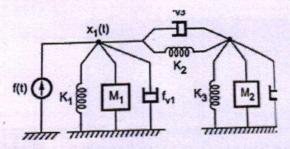
The combinations of two non-touching loops are, $L_1L_2=H_1H_2$

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Solutions:

Equivalent system is



$$f(t) = M_1 \frac{d^2 x_1}{dt^2} + K_1 x_1 + f_{v1} \frac{dx_1}{dt} + K_2 (x_1 - x_2) + f_{v3} \frac{d (x_1 - x_2)}{dt}$$

$$0 = K_2 (x_2 - x_1) + f_{v3} \frac{d (x_2 - x_1)}{dt} + M_2 \frac{d^2 x_2}{dt^2} + f_{v2} \frac{dx_2}{dt} + K_3 x_2$$

Taking Laplace transform of both the equations,

$$F(s) = X_1(s) [M_1 s^2 + s(f_{v1} + f_{v3}) + (K_1 + K_2)] - X_2(s) [sf_{v3} + K_2]$$

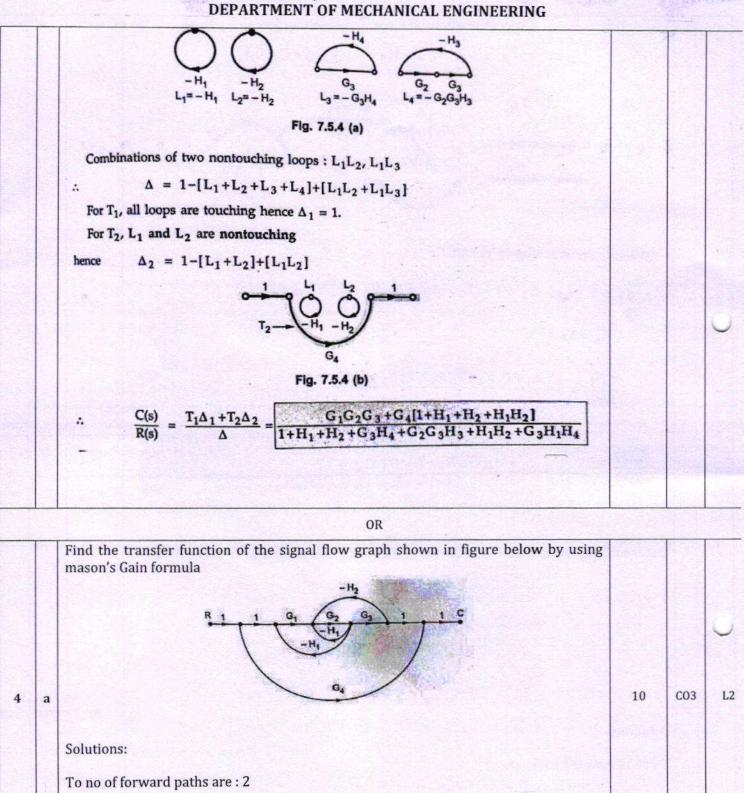
$$0 = -X_1(s) [K_2 + sf_{v3}] + X_2(s) [M_2 s^2 + s (f_{v2} + f_{v3}) + (K_2 + K_3)]$$

$$X_{1}(s) = \left[\frac{M_{2}s^{2} + s(f_{v2} + f_{v3}) + (K_{2} + K_{3})}{K_{2} + sf_{v3}}\right] X_{2}(s)$$

 $T_1 = G_1G_2G_3$, $T_2 = G_4$

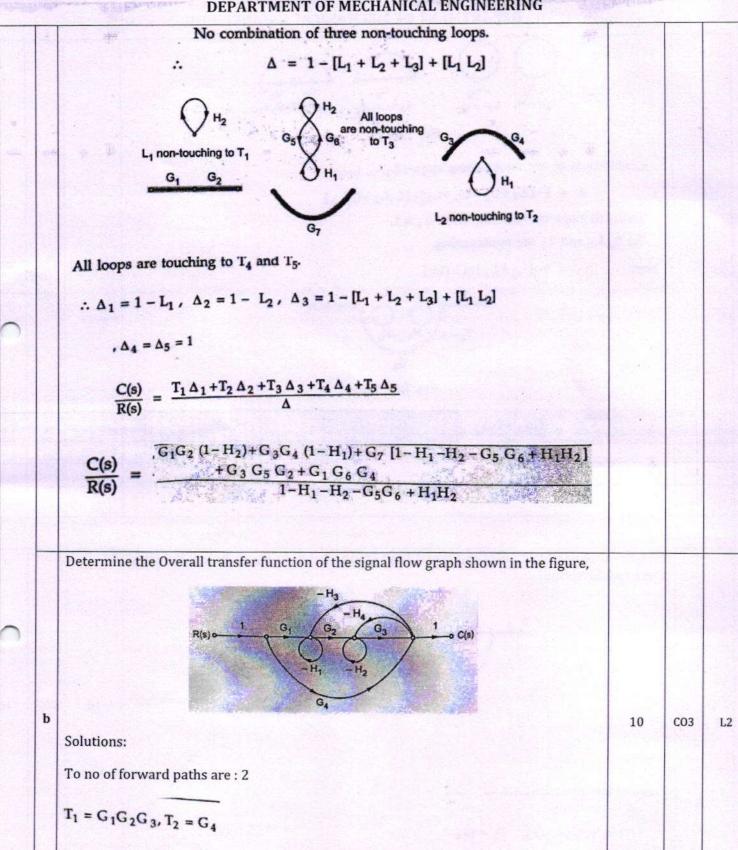
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The loops are,

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Solution: The number of forward paths are K = 6.

The forward path gains are,

$$T_1 = G_1G_2G_3, T_2 = G_4G_5G_6$$

$$T_2 = G_4 G_5 G_6$$

$$T_3 = G_1G_7G_6, T_4 = G_4G_8G_3$$

$$T_4 = G_4 G_8 G_3$$

$$T_{r} = G_{r}G_{r}(-H_{r})$$

$$T_5 = G_4G_8(-H_2)G_7G_6, T_6 = G_1G_7(-H_1)G_8G_3$$

The feedback loop gains are,

$$L_1 = -G_5 H_1$$
, $L_2 = -G_2 H_2$, $L_3 = +G_7 H_1 G_8 H_2$

The two nontouching loops are L₁ L₂.

$$L_1 L_2 = + G_2 G_5 H_1 H_2$$

$$\Delta = 1 - [L_1 + L_2 + L_3] + [L_1 L_2]$$

$$= 1+G_5H_1+G_2H_2-G_7G_8H_1H_2+G_2G_5H_1H_2$$

For T1, L1 is nontouching.

$$\Delta_1 = 1 - L_1 = 1 + G_5 H_1$$

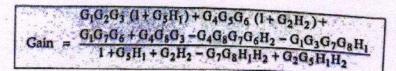
For T2, L2 is nontouching.

$$\Delta_2 = 1 - L_2 = 1 + G_2 H_2$$

For T3 to T6 all loops are touching to all forward paths.

$$\Delta_3 = \Delta_4 = \Delta_5 = \Delta_6 = 1$$

$$\therefore \qquad \text{Gain} = \frac{\sum T_{K} \Delta_{K}}{\Delta} = \frac{T_{1} \Delta_{1} + T_{2} \Delta_{2} + T_{3} \Delta_{3} + T_{4} \Delta_{4} + T_{5} \Delta_{5} + T_{6} \Delta_{6}}{\Delta}$$



... Ans.

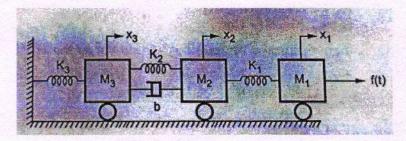
10

CO1

L2

MODULE 4

Find out the governing equation of mechanical system shown below and also sketch equivalent F-V Analogy.

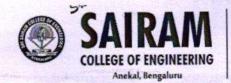


Solutions

5

The equivalent system is,

-0-	The individual loops are,				
		G_1 G_2 G_3 G_4 G_5 G_6 G_7 G_8 G_9			
	No combination of nontouching loo	the Market party and the Sales			
	All loops are touching to T ₁ hence A	$\Delta_1 = 1.$		-	
	All loops are nontouching to T2 her				
	$\frac{C}{R} = \frac{T_1 \Delta_1 + T_2 \Delta_2}{\Delta} = \frac{G_1 G_2}{G_2 G_2}$	$\frac{G_2G_3 + G_4(1 + G_2H_1 + G_2G_3H_2 + G_1G_2H_1)]}{1 + G_2H_1 + G_2G_3H_2 + G_1G_2H_1}$			
	Determine the Overall transfer function	on of the signal flow graph shown in the figure,			
	b $R(s)$ 1 G_s G_r G_{r} G_{g} G_{g} G_{g}	1 C(6)	10	C03	L2

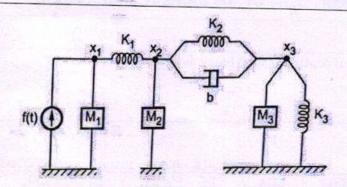


		OR			
6	а	Explain the following type of controller with block diagram I. Proportional II. Integral	10	C01	L2

Marks Distrib	ution				L1-L6 -	Blooms T	axonomy I	Level: CO1-	CO5 - Co	urse Outo	ome
Particulars	CO1	CO2	CO3	C04	C05	L1	L2	L3L	L4	L5	L6
Max. Marks	60		40				100				

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The equilibrium equations are,

$$f(t) = M_1 \frac{d^2 x_1}{dt^2} + K_1(x_1 - x_2) \qquad ... (1)$$

$$0 = K_1(x_2 - x_1) + M_2 \frac{d^2x_2}{dt^2} + K_2(x_2 - x_3) + b \frac{d(x_2 - x_3)}{dt} \qquad ... (2)$$

$$0 = K_2(x_3 - x_2) + b \frac{d(x_3 - x_2)}{dt} + M_3 \frac{d^2x_3}{dt^2} + K_3x_3 \qquad ... (3)$$

i) F-V analogy : Use $M \to L$, $b \to R$,

$$K \to \frac{1}{C}$$
, $x \to q$, $\frac{dx}{dt} \to \frac{dq}{dt} \to i$,

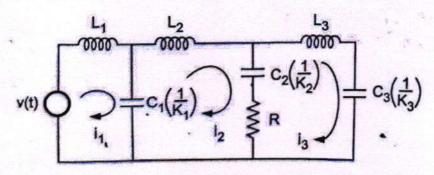
$$\frac{d^2x}{dt^2} \rightarrow \frac{di}{dt}$$
 and $x \rightarrow \int i dt$

$$v(t) = L_1 \frac{di_1}{dt} + \frac{1}{C_1} \int (i_1 - i_2) dt$$

$$0 = \frac{1}{C_1} \int (i_2 - i_1) dt + L_2 \frac{di_2}{dt} + \frac{1}{C_2} \int (i_2 - i_3) dt + R(i_2 - i_3)$$

$$0 = \frac{1}{C_2} \int (i_3 - i_2) dt + R(i_3 - i_2) + L_3 \frac{di_3}{dt} + \frac{1}{C_3} \int i_3 dt$$

The F-V analogous network





DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-2

(Academic Year 2021-22 ODD Sem)

Course Name:	Management & Economics	(Academic real	2021-22 ODD Ser	m)
Course Code :	18ME51		Date:	29/12/21
Staff Name:	Yogananda B.S.	Sem: V	Max. Marks:	50
		e full question from each Module	Time (Hrs: min):	ANTONIA CONTRACTOR

Q). No			Questions				_	
				Modu	la 2		Marks	CO	BTI
1	a	What is :	Staffing? Explain the	steps in staff selection p	ne - 2				
			gpium the				10	CO2	L1, L2
-	a	Define L	andonahin F. I. i	0	R				
-		Define Le	eadership. Explain in	brief, the basic styles of	fleadership	A	10	C02	L1, L2
				Modu	le - 3		10	COZ	L1, L
	a			st rate for a nominal an y (iii) Monthly (iv) Dail			10	CO3	L3
3	b	equivaler measures	nt amount of Rs. 10 The reserve is ass	a reserve which will h Lakhs for the next 20 sumed to grow at 15% ow as the reserve amou	elp the company years towards it		10	CO3	L3
	-	terror and		OR		Cambridge Curation			
4	a	year for t	35 years old plannin the next 25 years. Thaturity amount when	g his retired life by inv ne bank gives 20% inte he is 60 years old?	esting Rs. 10,000 rest compounded	at the end of every l annually. Find the	10	CO3	L3
	b			d (ii) Elasticity of Suppl		10	CO3	L2	
_				Module -					
	a	What are	CFD? State the law of	diminishing returns. W	here it can be app	plied?	10	CO3	L1, L2
		An entrep alternativ	oreneur owning a sma res from diff. manufac	all scale industry wants turers. Choose the best	to buy a milling n	nachine. He has 3			
5			Initial investment	Annual Revenue (Rs)	Salvage (Rs)	Life (Years)			wasse
	b	M/c 1	25,000	10,000	4,000	7	10	CO4	L3
		M/c 2	45,000	15,000	6,500	7			
		M/c 3	70,000	20,000	9,000	7			
		100		OR					
	a			re sum of Rs. 1 Lakh aft osit now at 15% interes			10	CO3	L3
5		Find best		e investment options ar Worth method at 18%		ded annually.			
	b	Options	0	1 2	3	4	10	CO4	L3
		Option A		20 20	20 18	20			
		Option B	-45	18 18	18	18			

1arks Distribu					DI 20 010		1117 1101 1107	CO - Course		1	1
Particulars	CO1	CO2	CO3	CO4	CO5	L1	L2	L3	L4	L5	Le
Max. Marks	2	20	60	20	-	10	30	60	N 2	-	-



DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II Scheme & Solution

(Academic Year 2021-22 ODD Sem)

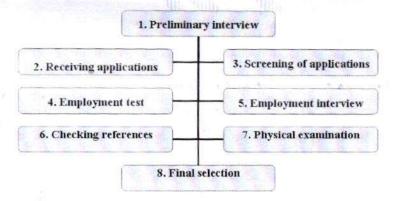
ourse Name: Management & Economics ourse Code : 18ME51				
18ME51	Sem:	5	Max. Marks:	30
ogananda B.S.	Sec:	A	Time (Hrs: min):	1:30
	8ME51 /ogananda B.S.	8ME51 Sem: Vogananda B.S. Sec:	Sem: 5 //ogananda B.S. Sec: A	Sem: 5 Max. Marks:

Questions	Marks	co	BTL
Module - 1		-	
What is Staffing? Explain the steps in staff selection process	10	CO2	L1, L2
-	DOSC WARE A SOLUTION OF THE PARTY OF THE PAR	Module - 1 What is Staffing? Explain the stone in staff calculation	Module - 1 What is Staffing? Explain the stage in staff - 1 - 1

Staffing - It is an operation of recruiting the employees by evaluating their skills and knowledge before offering them specific job roles accordingly, The term 'Staffing' relates to the recruitment, selection, development, training and compensation of the managerial personnel.

Selection is the process of choosing the most suitable candidates from those who apply for the job. It is a process of offering jobs to desired candidates.

Selection means choosing a few from those who apply. It is picking up of applicants or candidates with requisite qualifications and qualities to fill jobs in the organization.



		UR .								
2	a	Define Leadership. Explain in brief, the basic styles of leadership								
		Definition = 2 marks + 3 marks = 5 mar								
	Le	adership is the art of influencing people to attain group objectives willingly.								
	Leadership is essentially a continuous process of influencing behaviour. It may be considered in context of mutual relations									
		tween a leader and his followers.								
	1									
		Different Types of Leadership Styles								
	Au	itocratic or Authoritarian leadership. An autocratic leader centralizes power and decision-making in himself								
	De	emocratic or Participative leadership. Participative or democratic leaders decentralise authority								
	Th	ne Laissez-faire or Free-rein leadership								
	Pa	iternalistic leadership.								

Module - 2

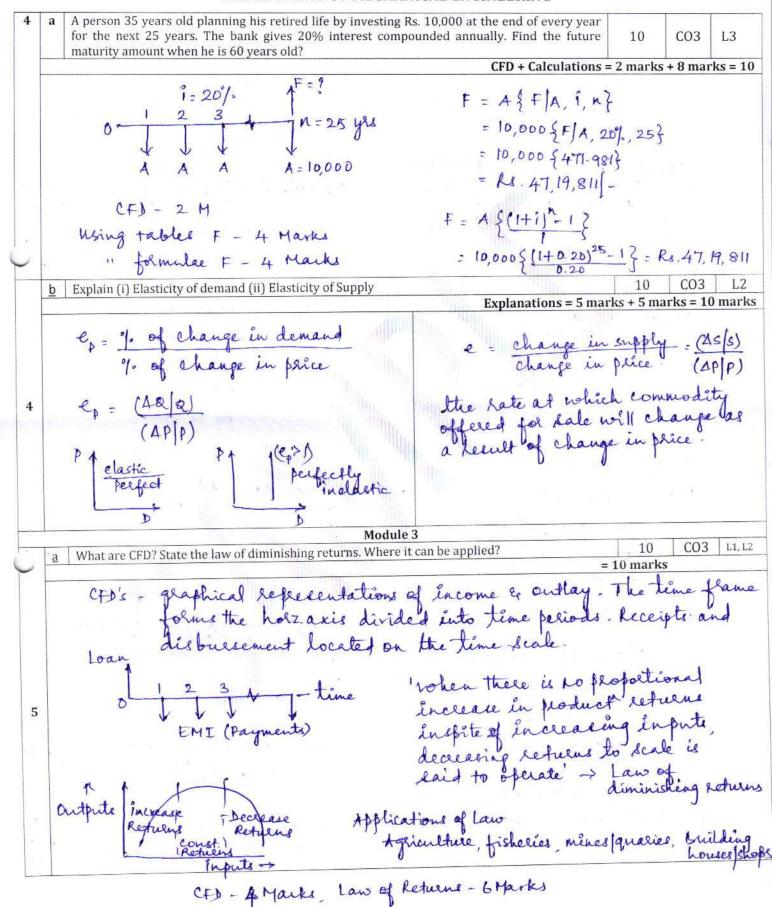


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		DEPARTMENT OF MECHANICAL ENGINEERIN	IG			
	a	Determine the effective interest rate for a nominal annual rate of 6% that is	-lv	10	CO3	L3
	а	compounded: (i) Semi-annually (ii) Quarterly (iii) Monthly (iv) Daily (v) hour	iy :	2 marks	* 5 = 10	marks
2		ieff = {1+2 } -1				
		Semi Annually leff = {1+0.06}2-1 Monthly	y. ieff =	{1+0	12}	2 - f
		= 6.09%	=	6-168	1.	
		quarterly left = { 1+0.06 } -1 Daily .	ieff = {	1+0.	365	' _
				6.183	1452	
18		Hourly.	ieff = {1	+ 0.0	365x 6 2 x24	
				.18%		
3	ar	b) A company wants to set up a reserve which will help the company to have an annumount of Rs. 10 Lakhs for the next 20 years towards its employee welfare measures, assumed to grow at 15% interest annually. Find the single payment that must be madeserve amount	The reserve is	10	C03	L.3
		0 1 1 2 1 1 1 = 10 Lakhs 0 1 2 1	P = Pr	esent	invest	ment
		i=15%	A = A	nual	Reven	ne
		P = 7	K = 20 L = 15	- (1	el	
20		Using discrete factor table usi	ing form			
			A \$ (1+	isn-1	1 7	
		= (6.2593)×10,00,000	$A \left\{ \frac{1+i}{i} \right\}$	(1+1)	n s	
		= 62,59,300 -	10,00,000}	(0.15	5)20 1 \ 1+0	15305
			62,59, 3	32/-	7	

CFD - 2 M, using tables - 4 M, using formulae - 4 M.

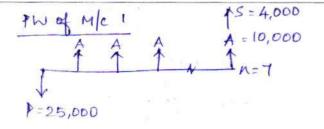






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			scale industry wants to buy ers. Choose the best option		e. He has 3			
b		Initial investment	Annual Revenue (Rs)	Salvage (Rs)	Life (Years)	10	CO4	13
	M/c 1	25,000	10,000	4,000	7	- 10	COT	113
	M/c 2	45,000	15,000	6,500	7			
	M/c3	70,000	20,000	9,000	7	- 24		



or

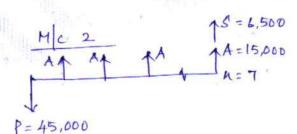
using tables
$$P(s) = S(P|F, i, n)$$

$$= 4000 \{P|F, 14i|...7\}$$

$$= 4000 \{0.3996\}$$

$$= Rs. 1598.54$$

Like this calculate for machine 2 & machine 3

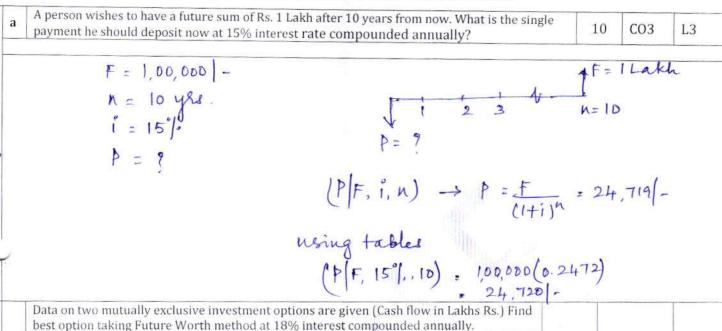


Precent worth of m/c 2 is highest among all go for it.

CFD - 3 M Calculations - 6 M. Conclusion - 1 M



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Definition - 2 Marks

h

FW (18%) = -50,00,000 ξ f/ ϕ , 18%, 47 +20,00,000 ξ f/A, 18%, 43 = -50,00,000 ξ 1.9397 +20,00,000 ξ 5.215} = Rs.7,35,000 | -

Alternative B

Alternative B

A A A = 18 lakks

D 1 2 3 n=4 years

P=45,00;000

 $fw(18\%) = -45,00,000 \{ F/p, 18\%, 4 \}$ + 18,00,000 \ F/A,18%, 4 \} = -45,00,000 \ 1.939 \ + 18,00,000 \ 5.215 \} = Rs.6,61,500 \ -

Alternative A is scheded

CFD - 3 M, Calculations - 6 M, Conclusion - 1 M



DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST- III

SET - I

(Academic Year 2022-23 - Odd

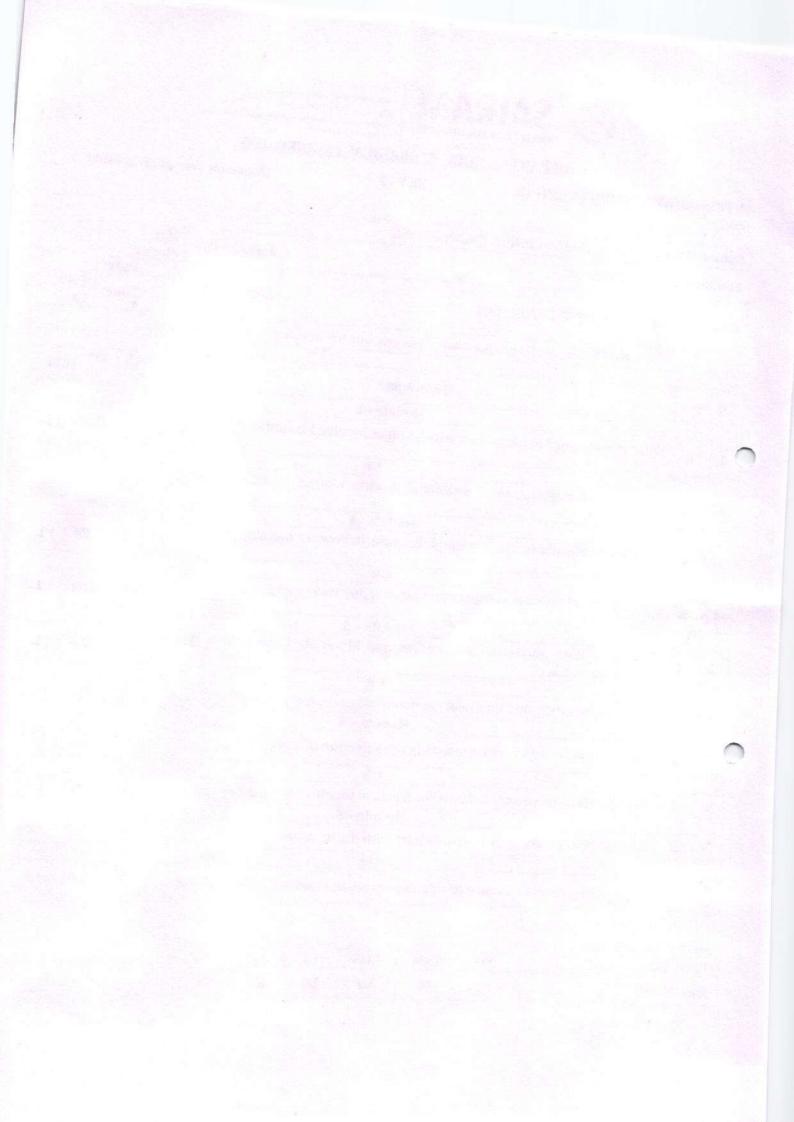
Sem)

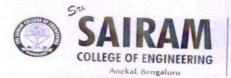
MATERIAL SCIENCE ENGINEERING	Sem:	111	Max.	50
21ME33			Date:	
Mr. V PANDIYARAJAN	Sec:	A	Time:	1:30 Hrs
	21ME33 Mr. V PANDIYARAJAN	21ME33 Mr. V PANDIYARAJAN Sec:	21ME33 Mr. V PANDIYARAJAN Sec: A	21ME33 Sem: III Marks: Date:

Q. !	No.	Questions	Mark s	со	BTL
Q		Module -4		-	
1	a	What is sintering? Explain the various stages involved in sintering process.	10	C04	L1
-		OR			
2	a	What is characterization of powders? Discuss various particle and shape distribution.	10	C04	L1
5 11	T.C.	Module -4			-
3	a	Discuss briefly about binders and lubricants in powder metallurgy.	10	C04	L2
		OR			
4	a	What is metal powder compaction? Explain any two types.	10	C04	L
		Module - 5		,	
5	a	Briefly explain about Design Process and Materials Data with a typical design flow chart.	10	C05	L1
		OR			
6	a	What are the different engineering materials and explain briefly.	10	C05	L1
		Module - 5			
7	a	Explain the various Factors affecting the selection of materials.	10	C05	L
		OR			
8	a	Explain Material property Chart for fracture toughness-modulus chart	10	C05	LZ
F 1	1.15	Module - 5			
9	a	Explain briefly strength-density chart with illustrations	10	C05	LZ
-		, OR			
(a)	a	Explain briefly the fracture toughness-strength chart with illustrations	10	C05	L2

Marks Distribution:

Particulars	CO1	CO2	CO3	CO4	CO5	L1	L2	L3	L4	L5	L6
Max. Marks		-	-	40	60	260	3 0	-		- //	





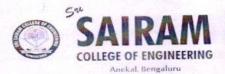
DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST- III SET - I

(Academic Year 2022-23 - Odd Sem)

MATERIAL SCIENCE ENGINEERING		Kara		
21ME33	Sem:	Ш	Max. Marks:	50
Mr. V PANDIVADAIAN			Date:	1
The state of the s		A	Time:	1:30 Hrs
	21ME33 Mr. V PANDIYARAJAN	21ME33 Sem: Mr. V PANDIYARAJAN Sec:	21ME33 Sem: III Mr. V PANDIYARAJAN Sec: A	21ME33 Sem: III Max. Marks: Mr. V PANDIYARAJAN Sec: A

Q.	No	Questions	Mark s	СО	BTI
	31	Module -4	3		
		What is sintering? Explain the various stages involved in sintering process. Sintering:			
1	а	Sintering may be considered the process by which an assembly of particles, compacted under pressure or simply confined in a container, chemically bond themselves into a coherent body under the influence of an elevated temperature. The temperature is usually below the melting point of the major constituent. The driving force for solid state sintering is the excess surface free energy.	10	C04	L1
		Various stages of sintering can be grouped in the following sequence: (i) Liquid Phase Sintering (ii) Activated Sintering (iii) Loose Sintering			
1	AND THE PERSON NAMED IN COLUMN	OR	243.13		
		What is characterization of powders? Discuss various particle and shape distribution.			
		Characterization of powders			
2	а	Introduction The success of any powder metallurgical process depends to a great extent on the complete characterization and control of the metal powders. The method of powder production influences particle chemistry and structure, apart from the precise nature of particle size distribution. These properties also influence the behaviour of the powder during compaction and sintering, and the composition, structure and properties of the sintered material. Particle & Shape Distribution Powder properties and methods of measuring them Particle size and size distribution	10	C04	L1



	Windows (Common Common	obscuration; Light scattering; Microscopy; Surface area. Particle shape [external] SEM; Shape parameters; Morphological analysis; Fractals. Particle shape [external and internal] Stereology; Mercury Porosimetry; Gas absorption. Module -4 Discuss briefly about binders and lubricants in powder metallurgy. Lubricants: Solid lubricants are generally used in a range of 0.5 to 1.5%, depending on the part density and size, to allow part ejection and maintain good surface finish. Many metal powders for P/M use are prelubricated by the powder manufacturer. Typical lubricant additions range from 0.5 to 1.0 wt%. While			
3	a	the presence of lubricants or other chemical additives or particle surfaces may inhibit wetting and cause agglomeration, lubricants have another significant effect. Lubricants or other chemical additives are much less dense than metal particles. Consequently, a small amount of lubricant by weight may contribute greatly to the particle count (population) distribution. Binders	10	C04	L1
		The binders are formulated specially to provide the proper rheological properties during injection moulding as well as ease of binder removal after the moulding step. Once the part is ejected from the mould, the binder material is removed using either solvent extraction or thermal processes (or both). Suitable binder materials must be homogeneously dispersible (preferably soluble) in the liquid used to form the slurry. When dry, binders must form a coating and/or adhere to the material being agglomerated. They must impart the required strength and crush resistance to the particle for subsequent handling.			
		OR			
4	a	What is metal powder compaction? Explain any two types. Metal powder compaction The compaction of metal powders has the following major functions: (a) to consolidate the powder into desired shape (b) to impart, to as high a degree as possible, the desired final dimensions with due consideration to any dimensional changes resulting from sintering.	10	C04	L1



		(c) to impart the desired level and type of porosity.		T	Т
		(d) to impart adequate strength for subsequent handling.	No. of Section		
		Several approaches exist for achieving these goals. In general the techniques can be categorised as			
E E		(a) continuous vs discontinuous process			
		(b) pressures – high vs low			
		(c) compaction velocity – high vs lo			
		(d) temperature – room to elevated temperature			
1		(e) uniaxial vs hydrostatic pressures			
		(i) Die Compaction			
		(ii) Cold Isostatic Compaction			
		(iii) Dynamic Powder Compaction			
		(iv) Powder Roll Compaction			
		Module - 5			
5	а	Briefly explain about Design Process and Materials Data with a typical design flow chart. The Design Process and Materials Data: Types of design Original design: it involves a new idea or working principle (the ballpoint pen, the compact disc). New materials can offer new, unique combinations of properties that enable original design. Thus high-purity silicon enabled the transistor; high-purity glass, the optical fiber; high coercive-force magnets, the miniature earphone; solid-state lasers the compact disc. Adaptive or developmental: The starting point is an existing product or product range. The motive for redesigning it may be to enhance performance, to reduce cost, or to adapt it to changing market conditions. Adaptive design takes an existing concept and seeks an incremental advance in performance through a refinement of the working principle. Variant design involves a change of scale or dimension or detailing without a change of function or the method of achieving it: the scaling up of boilers, or of pressure vessels, or of turbines, for instance.	10	C05	L1
		OR What are the different engineering materials and explain briefly.			
6	a	Engineering Materials and Their Properties:	10	C05	L1
		The classes of engineering materials and their structure It is conventional			



		to classify the materials of engineering into the six broad families: metals, polymers, elastomers, ceramics, glasses, and hybrids			
		Metals are stiff. They have relatively high elastic moduli. Most, when pure, are soft and easily deformed. They can be made strong by alloying and by mechanical and heat treatment, but they remain ductile, allowing them to be formed by deformation processes.			
		Ceramics , too, have high moduli, but unlike metal, they are brittle. Their "strength" in tension means the brittle fracture strength; in compression it is the brittle crushing strength, which is about 15 times greater.			
		Glasses are noncrystalline ("amorphous") solids. The most common are the soda-lime and borosilicate glasses familiar as bottles and ovenware, but there are many more.			~
		Polymers are at the other end of the spectrum. They have moduli that are low, roughly 50 times lower than those of metals, but they can be strong—nearly as strong as metals. A consequence of this is that elastic deflections can be large.			
		Module - 5			
		Explain the various Factors affecting the selection of materials.			
	100-11	Factors affecting the selection of materials:			-
		(i) Component shape: The shape and size of a component has great effect on the choice of the processing unit which ultimately affects the choice of the material. To make it more clear, we consider an example, let the best possible production method is selected, under given conditions, it is die casting, obviously, now the choice of the material becomes limited, i.e. one can only choose materials with lower melting points, e.g. aluminium, zinc,			
7	a	magnesium and thermoplastics. (ii) Dimensional tolerance: There are some materials which can be finished to close tolerance while others cannot. Obviously, the required dimensional tolerance for finished components will, influence the choice of materials.	10	C05	L2
W((iii) Mechanical properties: To select a suitable material for specific conditions, all mechanical properties, e.g., toughness, hardness, strength, etc. guide us. (iv) Fabrication (Manufacturing) requirements: Method of processing of the material also affects the properties of a			
		component, e.g., forged components can be stronger than the casted components. Different types of working processes may also give different types of fibre structure. However, investment casting can provide precise dimensions at low cost in comparison to machine operations. (v) Service requirements: Service requirements are:			
		✓ dimensional stability,			
		✓ strength, toughness		1	

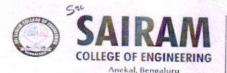


The state of		OR			
8	а	chart The fracture toughness-modulus chart The stress concentration at the tip of a crack generates a process zone: a plastic zone in ductile solids, a zone of micro-cracking in ceramics, and a zone of delamination, debonding, and fiber pull-out in composites. Within the process zone, work is done against plastic and frictional forces; it is this that accounts for the difference between the measured fracture energy, Gc, and the true surface energy 2γ. Figure 18, fracture toughness plotted against strength, shows that the size of the zone, dy (broken lines), varies from atomic dimensions for very brittle ceramics and glasses to almost 1 Meter for the most ductile of metals. At a constant zone size, fracture toughness tends to increase with strength, as expected. It is this that causes the data plotted in Figure 18 to be clustered around the diagonal of the chart. Materials toward the bottom right have high strength and low toughness; they fracture before they yield. Those toward the top left do the opposite: they yield before they fracture. The diagram has application in selecting materials for the safe design of load-bearing structures.	10	C05	L2
		Explain briefly strength-density chart with illustrations The strength-density chart For metals and polymers, it is the yield strength, but since the range of materials includes those that have been worked or hardened in some other way as well as those that have been softened by annealing, the range is large. For brittle ceramics, the strength plotted here is the modulus of			
9	a	rupture: the flexural strength. It is slightly greater than the tensile strength, but much less than the compression strength, which for ceramics is 10 to 15 times greater than the strength in tension. For elastomers, strength means the tensile tear strength. For composites, it is the tensile failure strength (the compressive strength can be less by up to 30% because of fiber buckling). The symbol of for all of these strengths. The single most important concept in understanding this wide range is the lattice resistance or Peierls stress. It is the intrinsic resistance of the structure to plastic shear. Plastic shear in a crystal involves the motion of dislocations. Pure metals are soft because the nonlocalized metallic bond does little to hinder dislocation motion, whereas ceramics are hard because their more localized covalent and ionic bonds (which must be broken and reformed when the structure is sheared) lock the dislocations in place. In the case of noncrystalline solids if the unit step involves breaking strong bonds (as in an inorganic glass), the materials will be strong. If it only involves the rupture of weak bonds (the Van der Waals bonds in polymers for example), it will be weak.		C05	L2



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		OR			
10	а	Explain briefly modulus-strength chart with illustrations The modulus-strength chart High tensile steel makes good springs. But so does rubber. How is it that two such different materials are both suited to the same task?. It shows Young's modulus, E, plotted against strength, σf. Contours of yield strain or fracture strain, σf/E (meaning the strain at which the material ceases to be linearly elastic), appear as a family of straight parallel lines. Examine these first. Engineering polymers have large yield strains of between 0.01 and 0.1; the values for metals are at least a factor of 10 smaller. Composites and woods lie on the 0.01 contour, as good as the best	10	C05	L2
		metals. Elastomers, because of their exceptionally low moduli, have values of $\sigma f/E$ larger than any other class of material: typically, 1 to 10. The specific stiffness–specific strength chart Many designs, particularly those for things that move, call for stiffness and strength at minimum weight. Figure 16 shows E/ρ plotted against $\sigma f/\rho$. These are measures of "mechanical efficiency," meaning the use of the least mass of material to do the most structural work.			



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DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-III

SET - II

(Academic Year 2022-23 - Odd Sem)

Course Name:	MATERIAL SCIENCE ENGINEERING				
Course Code :	21ME33	Sem:	Ш	Max. Marks:	50
Carrier Frank	M UDANDWING			Date:	
Course Faculty:	Mr. V PANDIYARAJAN	Sec:	A	Time:	1:30 Hrs

Q. No		Questions	Mark s	СО	BTL
	4	Module -4			
1	a	What is a surface coating technology? Briefly explain coating materials and coating technologies.	10	C04	L1
1	18	OR			-
2	a	What are all the different types surface coating? Explain briefly and state the advantages and disadvantages.	10	C04	L2
		Module -4			-
3	a	What is powder metallurgy? Explain the flow process with flow chart.	10	C04	L1
		OR			
4	a	What are all the powder production techniques we have? Explain various mechanical methods.	10	C04	L2
		Module - 5			
5	a	What is the need for material selection in design?	10	C05	L1
		OR			
6	a	Explain briefly about various properties of materials.	10	C05	L2
		Module - 5			
7	a	What is the best method for Selection criteria for materials?	10	C05	LI
		OR		N. 1	
8	a	Explain Material property Chart for the modulus-density chart.	10	C05	L2
		Module - 5			
9	a	Explain briefly strength-density chart with illustrations	10	C05	L2
		OR			
1 0	a	Explain briefly modulus-strength chart with illustrations	10	C05	L2

Marks Distribution:

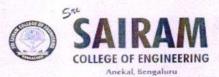
Particulars	CO1	CO2	CO3	CO4	CO5	L1	L2	L3	L4	L5	L6
Max. Marks			- 3	40	60	20	80				-



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INTERNAL ASSE	SSMENT TEST-III	SET - II	(Acad	lemic Y	ear 2022-23 - 0	dd Sem
Course Name:	MATERIAL SCIENCE ENG	SINEERING	NEW SHARE		o de Sales No.	
Course Code :	21ME33		Sem:	Ш	Max. Marks:	50
					Date:	
Course Faculty:	Mr. V PANDIYARAJAN		Sec:	A	Time:	1:30 Hrs
	NOTE: Answer 5 Full Questio	ns, Selecting One full q	uestion from e	ach mo	dule.	

Q. No	Questions	Marks	CO	BTL
	Module -4	£		
1 a	What is a surface coating technology? Briefly explain coating materials and coating technologies. Surface coating can be defined as a process in which a substance is applied to other materials to change the surface properties, without changing the bulk properties. Coatings can offer different properties such as corrosion/wear resistance, enhanced surface hardness, modified surface texture, thermal/electricalinsulation, enhancedwettability, hydrophobicity, etc. Coating materials Coating methods are available in a wide variety due to the enormous diversity of applications and needs in different fields. Variations in the processes parameters will lead to different outcomes in the form of material microstructure, effectiveness, suitability, and durability. Coating technologies There are many processes available, but only a few are among the most effective and applicable, including physical vapour deposition (PVD), chemical vapor deposition (CVD), micro-arc oxidation (MAO),	10	C04	L1
	electrodeposition, sol-gel, thermal spray, and polymer coatings.	100		
	OR			
2 a	What are all the different types surface coating? Explain briefly and state the advantages and disadvantages. Common types of coating Anodizing: This technique involves the electrolytic oxidation of aluminium. The metal surface is converted into an oxide layer, which provides impermeable protection. Electroplating: Here, components are provided with a metallic coating such as aluminium, chrome or zinc - which makes the surface electrically conductive. This is achieved by treatment in an immersion bath. Powder coating: In addition to everyday objects, electrically conductive components for machines and vehicles are protected with powder coating. The electro statically charged paint powder is applied in an application plant and then cured at up to 250 °C. E-Coating: In electrophoresis deposition, components are immersed in a bath of electrified liquid varnish. The main advantages of this technique are that the layer thickness can be determined by the amount of electricity. Wet spray: By means of chemical and physical processes, the liquid coating material forms a solid film on the work piece	10	C04	L1



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		Module -4			
		What is powder metallurgy? Explain the flow process with flow chart.			
3	a	Powder metallurgy: Modern powder metallurgy (P/M) technology commenced in the 1920s with the production of tungsten carbides and the mass production of porous bronze bushes for bearings. During the Second World War, further development took place in the manufacture of a great variety of ferrous and nonferrous materials, including many composites and a steady growth period developed during the post-war years until the early 1960s. Advantages of P/M: • economical processing	10	C04	L?"
		 unique properties and captive processes Automobile industries, Hardware, tools, cameras, farm and garden equipment industries, business machines, sporting goods and military products are just a few more areas where usage is on the upswing. P/M offers greater precision, eliminating most or all of the finish machining operations required for castings. It avoids casting defects such as blow holes, shrinkage and inclusions. 			
		OR			
		What are all the powder production techniques we have? Explain various mechanical methods. Powder Production Techniques:			
4	a	The significant manufacturing methods may be classed as follows: 1. Chemical methods 2. Physical methods 3. Mechanical methods	10	C04	L1
		Mechanical Methods			
		Crushing: The major equipment's are mortar and pestle, heavy drop hammer, and jaw crushers. In jaw crushing the crushing chamber is formed by one fixed jaw and one movable jaw between stationary side support walls.			

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DEPARTMENT OF MECHANICAL ENGINEERING

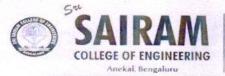
ed for processing hard brittle			
uch that powders are not only			
more very rapidly rotating			
- 5			
dea or a market need into the can be manufactured. Each of rials of which the product is to number of materials available ere is the rapid evolution of are— one with steps that can risions it reaches, that allows compatible with the other dependently of the choice of red, joined, and finished. Cost material and in the way the ign alone is not enough to sell appliances to automobiles and eauty, and meaning of the on who owns or uses it—are industrial design, is one that, works; excellent design also always open-ended. They do igh some solutions will clearly	10	C05	L1
	on method used. It consists of a d balls that tumble during and balls that tumble during and for processing hard brittle anical alloying is achieved by uch that powders are not only in this case, the ball charge is a fractured by mutual contact of more very rapidly rotating low systems which remove a low systems which remove a low systems which remove a low systems which the product is to number of materials available ere is the rapid evolution of the can be manufactured. Each of the can be	ed for processing hard brittle anical alloying is achieved by uch that powders are not only in this case, the ball charge is e fractured by mutual contact more very rapidly rotating low systems which remove a -5 design? dea or a market need into the can be manufactured. Each of rials of which the product is to number of materials available ere is the rapid evolution of ure— one with steps that can cisions it reaches, that allows compatible with the other dependently of the choice of oed, joined, and finished. Cost material and in the way the ign alone is not enough to sell appliances to automobiles and deauty, and meaning of the on who owns or uses it—are is industrial design, is one that, works; excellent design also always open-ended. They do agh some solutions will clearly	ed for processing hard brittle anical alloying is achieved by such that powders are not only in this case, the ball charge is e fractured by mutual contact is more very rapidly rotating low systems which remove a -5 design? dea or a market need into the can be manufactured. Each of rials of which the product is to number of materials available ere is the rapid evolution of are— one with steps that can cisions it reaches, that allows compatible with the other dependently of the choice of oed, joined, and finished. Cost material and in the way the ign alone is not enough to sell appliances to automobiles and reauty, and meaning of the on who owns or uses it—are is industrial design, is one that, a works; excellent design also a always open-ended. They dough some solutions will clearly

OR



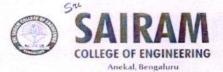
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		Explain briefly about various properties of materials. The Design Process and Materials Data:	7 TO		
6	a	Original design: it involves a new idea or working principle (the ballpoint pen, the compact disc). New materials can offer new, unique combinations of properties that enable original design. Thus high-purity silicon enabled the transistor; high-purity glass, the optical fiber; high coercive-force magnets, the miniature earphone; solid-state lasers the compact disc. Sometimes the new material suggests the new product. Sometimes, instead, the new product demands the development of a new material: Nuclear technology drove the development of a series of new zirconium alloys and low-carbon stainless steels; space technology stimulated the development of light weight composites; gas turbine technology today drives development of high-temperature alloys and ceramic coatings. Adaptive or developmental: The starting point is an existing product or product range. The motive for redesigning it may be to enhance performance, to reduce cost, or to adapt it to changing market conditions.	10	C05	L1
		Adaptive design takes an existing concept and seeks an incremental advance in performance through a refinement of the working principle. It, too, is often made possible by developments in materials. Small boats are made of fibreglass, large ships are made of steel; small boilers are made of copper, large ones of steel; subsonic planes are made of one alloy, supersonic of another			
	- 7	Module - 5			
		What is the best method for Selection criteria for materials? Material Selection Charts: Selection criteria for materials			
7	a	One of the most challenging tasks of materials engineer is the proper selection of the material for a particular job, e.g., a particular component of a machine or structure. An engineer must be in a position to choose the optimum combination of properties in a material at the lowest Possible cost without compromising the quality.	10	C05	L2
		Factors affecting the selection of materials: (i) Component shape (ii) Dimensional tolerance (iii) Mechanical properties (iv) Fabrication (Manufacturing) requirements (v) Service requirements (vi) Cost			



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	N.F.	OR			
		Explain Material property Chart for the modulus-density chart.			
		The modulus-density chart			
		High tensile steel makes good springs. But so does rubber. How is it that two such different materials are both suited to the same task? It shows Young's modulus, E, plotted against strength, σf .			
8	a	Contours of yield strain or fracture strain, $\sigma f/E$ (meaning the strain at which the material ceases to be linearly elastic), appear as a family of straight parallel lines.	10	C05	L2
		Examine these first. Engineering polymers have large yield strains of between 0.01 and 0.1; the values for metals are at least a factor of 10 smaller. Composites and woods lie on the 0.01 contour, as good as the best metals. Elastomers, because of their exceptionally low moduli, have values of $\sigma f/E$ larger than any other class of material: typically, 1 to 10.			
		The specific stiffness-specific strength chart Many designs, particularly those for things that move, call for stiffness and strength at minimum weight.			
		Module - 5 Explain briefly strength-density chart with illustrations		1	
		The strength-density chart			
9	а	For metals and polymers, it is the yield strength, but since the range of materials includes those that have been worked or hardened in some other way as well as those that have been softened by annealing, the range is large. For brittle ceramics, the strength plotted here is the modulus of rupture: the flexural strength. It is slightly greater than the tensile strength, but much less than the compression strength, which for ceramics is 10 to 15 times greater than the strength in tension. For elastomers, strength means the tensile tear strength. For composites, it is the tensile failure strength (the compressive strength can be less by up to 30% because of fiber buckling). The symbol of for all of these strengths. The single most important concept in understanding this wide range is the lattice resistance or Peierls stress. It is the intrinsic resistance of the structure to plastic shear. Plastic shear in a crystal involves the motion of dislocations. Pure metals are soft because the nonlocalized metallic bond does little to hinder dislocation motion, whereas ceramics are hard because their more localized covalent and ionic bonds (which must be broken and reformed when the structure is sheared) lock the dislocations in place. In the case of noncrystalline solids if the unit step involves breaking strong bonds (as in an inorganic glass), the materials will be strong. If it only involves the rupture of weak bonds (the Van der Waals bonds in polymers for example), it will be weak.	10	C05	L2



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		OR			
		Explain briefly modulus-strength chart with illustrations The modulus-strength chart			
		High tensile steel makes good springs. But so does rubber. How is it that two such different materials are both suited to the same task?. It shows Young's modulus, E, plotted against strength, of.			
		Contours of yield strain or fracture strain, $\sigma f/E$ (meaning the strain at which the material ceases to be linearly elastic), appear as a family of straight parallel lines.			
10	a	Examine these first. Engineering polymers have large yield strains of between 0.01 and 0.1; the values for metals are at least a factor of 10 smaller. Composites and woods lie on the 0.01 contour, as good as the best metals. Elastomers, because of their exceptionally low moduli, have values of $\sigma f/E$ larger than any other class of material: typically, 1 to 10.	10	C05	L2
		The specific stiffness–specific strength chart Many designs, particularly those for things that move, call for stiffness and strength at minimum weight. Figure 16 shows E/ρ plotted against $\sigma f/\rho$. These are measures of "mechanical efficiency," meaning the use of the least mass of material to do the most structural work.			





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

				Date:	17/07/2023
Course		Sem:	II	Max. Marks:	50
Course Code :	BEMEM203	Sec:	A	Time (Hrs: min):	1:30
Staff Name:	Harish Babu L	Jec.			

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N. Rogh 17/7/23	R300/17/23	12/3/23
Signatur (& Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Introduction to Civil Engineering			Date:	17/07/2023
Course Code :	BESCK204A	Sem:	II	Max. Marks:	50
Staff Name:	Yogananda B S	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
Signaturi & Name Rajesh Kumar N	Signature & Name Vijai R	Signature & Name Dr. Balaji V
Assistant Professor, Dept. of Mech. SCE, Anekal - 562106	Assistant Professor, Dept. of Mech. SCE, Anekal - 562106	Professor & Head, Dept. of Mech. SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I (Academic Year 2022-23 EVEN Sem)

Course Name:	Innovation and Design Thinking			Date:	17/07/2023
Course Code :	BIDTK258	Sem:	II	Max. Marks:	50
Staff Name:	Harish Babu L	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Red 12/23	R201/1/123	Well 3/3/123
Signaturi & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046 Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

(Academic Year 2022-23 EVEN Sem)

Course Name:	Samskruthika Kannada			Date:	17/07/2023
Course Code :	BKSKK207	Sem:	II	Max. Marks:	50
Staff Name:	Dr. Madhu B	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Redding	220 An 13	Welly 13/3/23
Signature & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

				Date:	01/09/2023
Course Name:	Elements of Mechanical Engineering	Come	11	Max. Marks:	50
Course Code :	ВЕМЕМ203	Sem:	-		1:30
Staff Name:	Harish Babu L	Sec:	A	Time (Hrs: min):	1.00

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N. Redleton	PAN 1923	10 lely 19/23
Signature & Nanfe	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

Course Name:	Introduction to Civil Engineering			Date:	01/09/2023
Course Code :	BESCK204A	Sem:	II	Max. Marks:	50
Staff Name:	Yogananda B S	Sec:	Α	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Approved by d of the Department)
ll 19/19/23
Signatur e & Name Dr. Balaji V
or & Head, Dept. of Mech. E, Anekal - 562106
2





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

Course Name:	Innovation and Design Thinking			Date:	01/09/2023
Course Code :	BIDTK258	Sem:	II	Max. Marks:	50
Staff Name:	Harish Babu L	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50
ny oth	er Comments:	et l	

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N. Red La.	RAW 19123	Welly 19/23
Signature & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046 Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II

(Academic Year 2022-23 EVEN Sem)

Course Name:	Samskruthika Kannada			Date:	01/09/2023
Course Code :	BKSKK207	Sem:	11	Max. Marks:	50
Staff Name:	Dr. Madhu B	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)

Signature & Name

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Reviewer - 2 (Dept. Academic Coordinator)

> Signature & Name Vijai R

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 Approved by (Head of the Department)

Signature & Name Dr. Balaji V





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I (Academic Year 2022-23 EVEN Sem)

Machining Science and Jigs & Fixtures			Date:	03/07/2023
	Sem:	IV	Max. Marks:	50
	Sec:	A	Time (Hrs: min):	1:30
	Machining Science and Jigs & Fixtures 21ME42 Dr. K SivasakthiBalan	21ME42 Sem:	21ME42 Sem: IV	21ME42 Sem: IV Max. Marks:

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N. Ref 177/23	RACY 3/7/23	Ully 3/3/23
Signatuje & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr.Bəlaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046 Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Fluid mechanics			Date:	03/07/2023
Course Code :	21ME43	Sem:	IV	Max. Marks:	50
Staff Name:	Yogananda B S	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N. La 1 273/23	RAM217123	Welly 3/3/23
Signatura & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I (Academic Year 2022-23 EVEN Sem)

Course Name:	Mechanics of Materials			Date:	03/07/2023
COULT DE TITLE	7 () () () () () () () () () (Sem:	IV	Max. Marks:	50
Course Code :	Part of the second seco	Sec:	A	Time (Hrs: min):	1:30
Staff Name:	Rajesh V	Seci		- Carrier (and an analy	

S. No	Rubrics	Max Points	Points Obtaine	
1	Timely submission of Question paper along with Scheme & Solution	10	10	
2	Quality of Question Paper with respect to BTL and Cos	10	10	
3	Formatting & Correctness of data	10	10	
4	No handwritten data/diagram	10	10	
5	Scheme & Solution in Specified format	10	10	
	Total	50	50	

Reviewer - 2	Approved by
(Dept. Academic Coordinator)	(Head of the Department)
Raw 30123	(lll 4 3 1 2 3
Signature & Name	Signature & Name
Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106
	(Dept. Academic Coordinator) Signature & Name Vijai R Assistant Professor, Dept. of Mech.





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I (Academic Year 2022-23 EVEN Sem)

				Date:	03/07/2023
Course Name:	Samskruthika Kannada	Sem:	IV	Max. Marks:	50
Course Code :	21KSK47		-	mi	1:30
Staff Name:	Dr. Madhu B	Sec:	A	Time (Hrs: min):	1.50

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Roll 3/7/23	RJW 3np3	eg. Chily 2/123
Signature & Name Rajesh Kumar N	Signature & Name Vijai R	Signature & Name Dr. Balaji V
Assistant Professor, Dept. of Mech. SCE, Anekal - 562106	Assistant Professor, Dept. of Mech. SCE, Anekal - 562106	Professor & Head, Dept. of Mech. SCE, Anekal - 562106
1		





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Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

C Name	Universal Human Values			Date:	03/07/2023
COULT DE TIME		Sem:	IV	Max. Marks:	50
Course Code : Staff Name:	Dr. K Sivasakthibalan	Sec:	A	Time (Hrs: min):	1:30
Stall Name:	DI. K Sivasaktinbaian				

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	er Comments:	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N-Red 3/7/23	R70317123	Olle 43/3/23
Signature & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INI	(Academic Year 2022-23 EVEN Sem)				
Course Name:	ourse Name: Machining Science and Jigs & Fixtures			LI ZOZZ-ZS EVEN	semj
Course Code:	21ME42			Date:	10/08/2023
Staff Name:	Dr. K SivasakthiBalan	Sem:	IV	Max. Marks:	50
1 (A)	Ortusaktindalali	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Rep 10/2/23	RJW 018/23	White 18/23
Signature & Name	Signature & Name	Signature & Name
Rajesh Kumar N	, Vijai R	Dr.Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





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Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

Course Name:	Fluid mechanics			Date:	10/08/2023
Course Code :	21ME43	Sem:	IV	Max. Marks:	50
Staff Name:	Yogananda B S	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Repl. 10/8/23	R764 018/23	(elly 70/8/23
Signature & Name	Signature & Name	Signatur & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II (Academic Year 2022-23 EVEN Sem)

Course Name:	Mechanics of Materials			Date:	10/08/2023
Course Code :	21ME44	Sem:	IV	Max. Marks:	50
Staff Name:	Rajesh V	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
or Rad Take	08 or 1003	Well 50 18/23
Signature Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II (Academic Year 2022-23 EVEN Sem)

Course Name:	Samskruthika Kannada			Date:	10/08/2023
Course Code :	21KSK47	Sem:	IV	Max. Marks:	50
Staff Name:	Dr. Madhu B	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Replian.	R200, 100/23	Ully 10/8/23
Signator & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II (Academic Year 2022-23 EVEN Sem)

Course Name:	Universal Human Values			Date:	10/08/2023
Course Code :	21UH49	Sem:	IV	Max. Marks:	50
Staff Name:	Dr. K Sivasakthibalan	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Question Paper is prepared as per the IQAC format.

Approved by Reviewer - 2 (Head of the Department) Reviewer -1 (Dept. Academic Coordinator) (Dept. IQAC Coordinator) ture & Name Signature & Name Dr. Balaji V Vijai R Rajesh Kumar N Professor & Head, Dept. of Mech. Assistant Professor, Dept. of Mech. Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 SCE, Anekal - 562106 SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

Course Name:	Machining Science and Jigs & Fixtures			Date:	06/09/2023
Course Code :	21ME42	Sem:	IV	Max. Marks:	50
Staff Name:	Dr. K SivasakthiBalan	Sec:	Α	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N. Red 5/9/23	Rawbalis	(Caly 23
Signature & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr.Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTER	NAL ASSESSMENT TEST-III	(Aca		ic Year 2022-23 EV	VFN Som)
Course Name:	Fluid mechanics				Liv Selli)
Course Code :	21ME43			Date:	06/09/2023
Staff Name:	Yogananda B S	Sem:	IV	Max. Marks:	50
	rogananua D 3	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N. Rof 1/9/23	R900 61912>	(Oluly 6/9/23
Signature / Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

				Date:	06/09/2023
Course Name:	Mechanics of Materials	Sem:	IV	Max. Marks:	50
Course Code :	21ME44		-		1:30
Staff Name:	Rajesh V	Sec:	A	Time (Hrs: min):	1.30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Replay 2	R201/19/23	Well 5/9/23
Signaturd& Name	Signature & Name	Signa dre & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

Course Name:	Samskruthika Kannada			Date:	06/09/2023
Course Code :	21KSK47	Sem:	IV	Max. Marks:	50
Staff Name:	Dr. Madhu B	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N- Repl 5/9/23	PJW 119123	White 19/13
Signature (Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Dr. Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-III (Academic Year 2022-23 EVEN Sem)

Course Name:	Universal Human Values			Date:	06/09/2023
Course Code :	21UH49	Sem:	IV	Max. Marks:	50
Staff Name:	Dr. K Sivasakthibalan	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)

Reviewer - 2 (Dept. Academic Coordinator)

Approved by (Head of the Department)

Rajesh Kul

Signature & Name Vijai R

Signature & Name Dr. Balan V

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106





Format No. FR-046 Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Finite Element Methods			Date:	25/04/2023
Course Code :	18ME61	Sem:	VI	Max. Marks:	50
Staff Name:	Rajesh Kumar N	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)

Reviewer - 2 (Dept. Academic Coordinator) Approved by (Head of the Department)

Signature Name

Rajesh Kumar N Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 Signature & Name

Vijai R Assistant Professor, Dept. of Mech. SCE, Anekal - 562106





Format No. FR-046 Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Design of Machine Elements - 2			Date:	25/04/2023
Course Code :	18ME62	Sem:	VI	Max. Marks:	50
Staff Name:	Harish Babu L	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator) Reviewer - 2 (Dept. Academic Coordinator) Approved by (Head of the Department)

Signature & Name

Signature & Name

Signaturo & Name

Rajesh Kumar N Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 Vijai R Assistant Professor, Dept. of Mech. SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Heat Transfer			Date:	25/04/2023
Course Code :	18ME63	Sem:	VI	Max. Marks:	50
Staff Name:	Pandiyarajan V	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)

Sumatura 9, Nama

Rajesh Kumar N Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 Reviewer - 2 (Dept. Academic Coordinator)

Signature & Name

Vijai R Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 Approved by (Head of the Department)

Signature & Name





Format No. FR-046 Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Name: Non Traditional Machining			Date:	25/04/2023
Course Code :	18ME641	Sem:	VI	Max. Marks:	50
Staff Name:	Rajesh Kumar N	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained 10 10 10
1	Timely submission of Question paper along with Scheme & Solution	10	
2	Quality of Question Paper with respect to BTL and Cos	10	
3	Formatting & Correctness of data	10	
4	No handwritten data/diagram	10	
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)

Signature Name

Rajesh Kumar N Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 Reviewer - 2 (Dept. Academic Coordinator)

Signatura & Mama

Vijai R Assistant Professor, Dept. of Mech.

SCE, Anekal - 562106

Approved by (Head of the Department)

State of S. Nome





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Sustainability Concept in Civil Engineering			Date:	25/04/2023
Course Code :	18CV654	Sem:	VI	Max. Marks:	50
Staff Name:	Yogananda B S	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)

Rajesh Kumar N Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Reviewer - 2 (Dept. Academic Coordinator)

Signature & Name

Vijai R Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Approved by (Head of the Department)





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II

(Academic Year 2022-23 EVEN Sem)

Course Name:	Finite Element Methods			Date:	24/05/2023
Course Code:	18ME61	Sem:	VI	Max. Marks:	50
Staff Name:	Rajesh Kumar N	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)

Rajesh Kumar N

Assistant Professor, Dept. of Mech.

SCE, Anekal - 562106

Reviewer - 2 (Dept. Academic Coordinator)

Signature & Name

Vijai R

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Approved by (Head of the Department)

Balaji V





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II (Academic Year 2022-23 EVEN Sem)

Course Name:	Design of Machine Elements 2			Date:	24/05/2023
Course Code :	18ME62	Sem:	VI	Max. Marks:	50
Staff Name:	Dr. Madhu B	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Replayof23	R702415123	Chily 2415/23
Signature & Name	Signature & Name	Signative & Name
Rajesh Kumar N	Vijai R	Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor& Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II

(Academic Year 2022-23 EVEN Sem)

Course Name:	Heat Transfer			Date:	24/05/2023
Course Code:	18ME63	Sem:	VI	Max. Marks:	50
Staff Name:	Pandiyarajan V	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)

Reviewer - 2 (Dept. Academic Coordinator) Approved by (Head of the Department)

Signature & Name Rajesh Kumar N

Signature & Name Vijai R Signa Are & Name Balaji V

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106





Format No. FR-046 Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II

(Academic Year 2022-23 EVEN Sem)

Course Name:	Non Traditional Machining			Date:	24/05/2023
Course Code :	18ME641	Sem:	VI	Max. Marks:	50
Staff Name:	Rajesh Kumar N	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Reply 3	R26024/5/03	Olly 24/5/23
Signaturo & Name	Signature & Name	Signa Vre & Name
Rajesh Kumar N	Vijai R	Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor& Head, Dept. of Mech
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II (Academic Year 2022-23 EVEN Sem)

Course Name:	Sustainability Concept in Civil Engineering			Date:	24/05/2023
Course Code :	18CV654	Sem:	VI	Max. Marks:	50
Staff Name:	Yogananda B S	Sec:	A	Time (Hrs: min):	1:30

Rubrics	Max Points	Points Obtained
Timely submission of Question paper along with Scheme & Solution	10	10
Quality of Question Paper with respect to BTL and Cos	10	10
Formatting & Correctness of data	10	10
No handwritten data/diagram	10	10
Scheme & Solution in Specified format	10	10
Total	50	50
	50	
	Timely submission of Question paper along with Scheme & Solution Quality of Question Paper with respect to BTL and Cos Formatting & Correctness of data No handwritten data/diagram Scheme & Solution in Specified format	Timely submission of Question paper along with Scheme & 10 Quality of Question Paper with respect to BTL and Cos 10 Formatting & Correctness of data 10 No handwritten data/diagram 10 Scheme & Solution in Specified format 10 Total 50

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Raple 3/2 3	RQ012415123	Olly 2415/23
Signatur & Name	Signature & Name	Signalure & Name
Rajesh Kumar N	Vijai R	Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor& Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-III

(Academic Year 2022-23 EVEN Sem)

Course Name:	Finite Element Methods			Date:	03/07/2023
Course Code :	18ME61	Sem:	VI	Max. Marks:	50
Staff Name:	Rajesh Kumar N	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Question Paper is prepared

Reviewer - 2 (Dept. Academic Coordinator)

Approved by (Head of the Department)

N. Refly

Reviewer -1

(Dept. IQAC Coordinator)

Rajesh Kumar N

, Signature & Name Vijai R Signature & Name

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-III (Academic Year 2022-23 EVEN Sem)

Course Name:	Design of Machine Elements -2			Date:	03/07/2023
Course Code :	18ME62	Sem:	VI	Max. Marks:	50
Staff Name:	Dr. Madhu B	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N. Ro 13/7/23	8763712	1011/3/3/23
Signature & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor& Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-III (Academic Year 2022-23 EVEN Sem)

Course Name:	Heat Transfer			Date:	03/07/2023
Course Code :	18ME63	Sem:	VI	Max. Marks:	50
Staff Name:	Pandiyarajan V	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total er Comments:	50	50

Reviewer -1 (Dept. IQAC Coordinator)

Rajesh Kumar N

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Reviewer - 2 (Dept. Academic Coordinator)

Vijai R

Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Approved by (Head of the Department)

Balaji V





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-III (Academic Year 2022-23 EVEN Sem)

Course Name:	Non Traditional Machining			Date:	03/07/2023
Course Code :	18ME641	Sem:	VI	Max. Marks:	50
Staff Name:	Rajesh Kumar N	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Question Paper is prepared as per the IQAC format.

Reviewer -1	Reviewer - 2	Approved by
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)	(Head of the Department)
N- Repl 277/23	RJ0217123	Welly 3/3/23
Signatur & Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor& Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-III

(Academic Year 2022-23 EVEN Sem)

	Ct. Il Engineering			Date:	03/07/2023
Course Name:	Sustainability Concept in Civil Engineering	Sem:	VI	Max. Marks:	50
Course Code :	18CV654		Α.	Time (Hrs: min):	1:30
Staff Name:	Yogananda B S	Sec:	A	Time (ms. mm)	

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Question Paper is prepared as per the IQAC format.

Reviewer -1 Reviewer - 2 Approved by (Dept. IQAC Coordinator) (Dept. Academic Coordinator) (Head of the Department) Signature & Name Rajesh Kumar N Vijai R Balaji V Assistant Professor, Dept. of Mech. Professor& Head, Dept. of Mech. Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 SCE, Anekal - 562106 SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Energy Engineering			Date:	20/03/2023
Course Code:	18ME81	Sem:	VIII	Max. Marks:	50
Staff Name:	Dr. K Sivasakthibalan	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)

Reviewer - 2 (Dept. Academic Coordinator)

Approved by (Head of the Department)

Rajesh Kumar N Assistant Professor, Dept. of Mech.

SCE, Anekal - 562106

Vijai R Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Sign ture & Name





Format No. FR-046 Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-I

(Academic Year 2022-23 EVEN Sem)

Course Name:	Automobile Engineering			Date:	20/03/2023
Course Code :	18ME824	Sem:	VIII	Max. Marks:	50
Staff Name:	Rajesh V	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
N- Red 20/3/23	R7013123	Welly 20/3/23
Signature & Name	Signature & Name	Signature Name
Data I. V N	Viini P	Balaii V

Rajesh Kumar N Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 Vijai R Assistant Professor, Dept. of Mech. SCE, Anekal - 562106





Format No. FR-046

Rev. No. 02 Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II

(Academic Year 2022-23 EVEN Sem)

Course Name:	Energy Engineering			Date:	25/04/2023
Course Code :	18ME81	Sem:	VIII	Max. Marks:	50
Staff Name:	Dr. K Sivasakthibalan	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Reviewer -1 (Dept. IQAC Coordinator)

Reviewer - 2 (Dept. Academic Coordinator)

Approved by (Head of the Department)

Signature & Jame

Rajesh Kumar N Assistant Professor, Dept. of Mech. SCE, Anekal - 562106 R-1005/4/27

Vijai R Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Signature & Name





Format No. FR-046

Rev. No. 02

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-II (Academic Year 2022-23 EVEN Sem)

Course Name:	Automobile Engineering			Date:	25/04/2023
Course Code :	18ME824	Sem:	VIII	Max. Marks:	50
Staff Name:	Rajesh V	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)

Rajesh Kumar N Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Reviewer - 2 (Dept. Academic Coordinator)

Vijai R Assistant Professor, Dept. of Mech. SCE, Anekal - 562106

Approved by (Head of the Department)

Signature & Name





Format No. FR-046 Rev. No.

Issue Date: 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL ASSESSMENT TEST-III

(Academic Year 2022-23 EVEN Sem)

Course Name:	ame: Energy Engineering				08/05/2023
Course Code:	18ME81	Sem: VIII Max. Marks		Max. Marks:	50
Staff Name:	Dr. K Sivasakthibalan	Sec:	A	Time (Hrs: min):	1:30

S. No	Rubrics	Max Points	Points Obtained
1	Timely submission of Question paper along with Scheme & Solution	10	10
2	Quality of Question Paper with respect to BTL and Cos	10	10
3	Formatting & Correctness of data	10	10
4	No handwritten data/diagram	10	10
5	Scheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Rajesh Kumar N

Question Paper is prepared as per the IQAC format.

Reviewer -1	Reviewer - 2
(Dept. IQAC Coordinator)	(Dept. Academic Coordinator)
N. R. M.	2200 A (123

Signature & Name Vijai R

Rajesh Kumar N Vijai R
Assistant Professor, Dept. of Mech.
SCE, Anekal - 562106 SCE, Anekal - 562106

Ullyg15/23

Approved by (Head of the Department)

Signature & Name Balaji V





Format No. FR-046

Rev. No. 02

Title: Internal Question Paper Evaluation 20.02.2021

DEPARTMENT OF MECHANICAL ENGINEERING

(Academic Year 2022-23 EVEN Sem)

		(Acad	enne	Cur	
INTERN	IAL ASSESSMENT TEST-III			Date:	08/05/2023
		Sem:	VIII	Max. Marks:	50
L.Ourse		Sec:	A	Time (Hrs: min):	1:30
Staff Name:	Rajesh V				

taff Name:	Rajesh V	Max Points	Points Obtained
S. No	Rubrics	10	10
1 Tin	nely submission of Question paper along with Scheme & ution		10
2 Qu	ality of Question Paper with respect to BTL and Cos	10	10
3 Fo	rmatting & Correctness of data	10	10
	o handwritten data/diagram	10	10
5 Sc	cheme & Solution in Specified format	10	10
	Total	50	50

Any other Comments:

Question Paper is prepared as per the IQAC format.

Reviewer -1 (Dept. IQAC Coordinator)	Reviewer - 2 (Dept. Academic Coordinator)	Approved by (Head of the Department)
M. Reflected	RJW 8/8/23	Welly 15/23
Signature/k Name	Signature & Name	Signature & Name
Rajesh Kumar N	Vijai R	Balaji V
Rajesh Kumar N	Vijai R	Balaji V
Assistant Professor, Dept. of Mech.	Assistant Professor, Dept. of Mech.	Professor & Head, Dept. of Mech.
SCE, Anekal - 562106	SCE, Anekal - 562106	SCE, Anekal - 562106

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Sni **COLLEGE OF ENGINEERING**

Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Review form of First I.A. Blue Books/ Soft Copy

Dept: MECHANICAL ENGINEERING

Date: 27/03/2023

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
FINAL YEAR	Energy Engineering – 18ME81	Dr. K. Sivasakthibalan	15618ME026 15619ME002 15619ME012		As per the Scheme
VIII - A	Automobile Engineering – 18ME824	Prof. Rajesh V	1946006 1946016 2046402		Evaluates as per the Schane

Note: - Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by: Approved by: Welly 01/3/2013

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Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Review form of Second I.A. Blue Books/ Soft Copy

Dept: MECHANICAL ENGINEERING

Date: 26/04/2023

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
FINAL YEAR	Energy Engineering – 18ME81	Dr. K. Sivasakthibalan	15619ME013 15619ME021 15820ME401	Prof. Yogananda B S	As for the scheme
VIII - A	Automobile Engineering – 18ME824	Prof. Rajesh V	1946004 1946014 204640	Prof. Harish Babu L	Eschuated as per the Schem

Note: - Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by: N- flat 1/2013 Approved by: White 36/4/2013

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Sni COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Review form of Third I.A. Blue Books/ Soft Copy

Dept: MECHANICAL ENGINEERING

Date: 12/05/2013

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
FINAL YEAR VIII - A	Energy Engineering – 18ME81	Dr. K. Sivasakthibalan	ISBIGMED 17 ISBIGMED 06 ISBISMEDIL	Yogananda	As per the scheme
	Automobile Engineering – 18ME824	Prof. Rajesh V	19MEOUS 19MEOUS 20HEUUS	Prof. Harish Babu L	Conetes os per The Sulum

Note: - Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by: N. P. 12/5/2013 Approved by: Well 12/5/2013

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SAIRAM COLLEGE OF ENGINEERING

Title: Review form of I.A. Blue Books

Format No. FR-047 Rev.No. 01 Issue Date: 15.04.2016

Review form of First I.A. Blue Books/ Soft Copy

Dept: Mechanical Engg.

Date: 05/05/2013

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
THIRD YEAR/VI - A	Finite Element Analysis- 18ME61	Prof. Rajesh Kumar N	15B20ME018 15B20HE010 15B20ME002	Dr. Madhu B	Evaluation is done as per the Scheme
	Design of Machine Elements -II – 18ME62	Prof. Harish Babu L	ISB 20ME001 ISB 20ME014 ISB 21 ME400	Prof. Rajesh Kumar N	Evaluation is done as per the scheme
	Heat transfer – 18ME63	Prof. Pandiyarajan V	15B20ME002 15B20ME010 15B20ME018	Dr.K.Sivasakthi Balan	Evaluations close appear The Scherr
	Non Traditional Machining – 18ME641	Prof. Rajesh Kumar N	1582005002 1582000000 1882105405	Prof. Rajesh V	EVALUATE AS PER THE SCUTPE
	Sustainability concepts in Civil Engg. – 18CV654	Prof. Yogananda B S	15818me 018 15820me 01) 15821me 402	Prof. Vijai R	Ventied asper scheme

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by

05/05/2023

Approved by:

Q. P Park .



Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Review form of Second I.A. Blue Books/ Soft Copy

Dept: Mechanical Engg.

Date: 06/06/2023

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
	Finite Element Analysis- 18ME61	Prof. Rajesh Kumar N	15B20ME017- 15B20ME015 15B20ME001	Dr. Madhu B	Evaluation is done as per the scheme
	Design of Machine Elements -II – 18ME62	Dr. Madhu B	15 B 2 OM E 003 15 B 2 OM E 015 15 B 2 1 M E 4 04	Prof. Rajesh Kumar N	Evaluation is done a per the scheme.
THIRD YEAR/VI - A	Heat transfer – 18ME63	Prof. Pandiyarajan V	15B20ME004 15B20ME01) 15B20M6017	Dr.K.Sivasakthi Balan	done on pu The scheme
	Non Traditional Machining – 18ME641	Prof. Rajesh Kumar N	ISB200F003 ISB200F016 ISB210F404	Prof. Rajesh V	EVALUATE SCHENE
	Sustainability concepts in Civil Engg. – 18CV654	Prof. Yogananda B S	15B20me003 15B20me016 15B21me403	Prof. Vijai R	Reviewed as per scheone school

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books

Verified by : N. Ref 6/6/23

Approved by: Waly 616 123

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Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No. 01

Issue Date: 15.04.2016

Review form of Third I.A. Blue Books/ Soft Copy

Dept: Mechanical Engg.

Date: 14/07/2013

				10.500	
Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
THIRD YEAR/VI - A	Finite Element Analysis- 18ME61	Prof. Rajesh Kumar N	ISB20ME011 ISB26 ME009 ISB26ME405	Dr. Madhu B	Evaluation is done as per the schem
	Design of Machine Elements -II – 18ME62	Dr. Madhu B	SB 20ME012 SB20ME011 SB21ME403	Prof. Rajesh Kumar N	Evaluation is done as per the scheme. N. Ref.
	Heat transfer – 18ME63	Prof. Pandiyarajan V	15B20ME007 15B20ME012 15B21ME402	Dr.K.Sivasakthi Balan	Evaluations as done as perting to scheme to
	Non Traditional Machining – 18ME641	Prof. Rajesh Kumar N	13B20105004 13B20105011 13B21105403	Prof. Rajesh V	SUALUATED AS PER THE SCHOOLE
	Sustainability concepts in Civil Engg. – 18CV654	Prof. Yogananda B S	15B20me006 15B20me012 15B21me 401	Prof. Vijai R	venticol os scher gar

Note:- Review of I.A.Blue Books made on sample basis randomly. One sample for every 10 Blue Books Approved by: Walf 14/7/2013



Title: Review form of I.A. Blue Books

Format No. FR-047

Rev.No.

Issue Date: 15.04.2016

Review form of First I.A. Blue Books/ Soft Copy

Dept: Mechanical Engg.

Date: 02/08/23

Class / Sem	Subject Name	Staff Incharge	USN of Reviewed I.A.Blue Books	Reviewed By	Remarks
SECOND YEAR / IV - A	Complex Analysis, Probabilty and Linear Programming - 21ME41	Prof. Swathi M	ISB21MESS	-Dr. Pandikani M	As per scheme
	Machining Surface and Jigs & Fixtures – 21ME42	Dr. K. SivasakthiBalan	ISB 21meool ISB21meOU ISB 22m2404		Asper some
	Fluid Mechanics – 21ME43	Prof. Yogananda B S	15 821ME 002 15821ME 013	Prof. Pandiyarajan V	AS PERE
	Mechanics of Materials – 21ME44	Prof. Rajesh V	ISB2IMEOOI ISB2IMEOID		As Per Solune Men 1
	Biology for Engineers – 21BE45	Dr. Shailashree	15B21ME 000 15B22ME 402	Prof. Pandiyarajan V	95 get c
	Samskruthika Kannada – 21KSK37	Dr. Madhu B	15821 MEGOG4 15822 MEGGO1	Prof. Yogananda B S	At fee The
	Balake Kannada – 21KBK37	Prof. Pushparaj	15821ME001 15821ME012	Prof. Yogananda B S	As per the
	Universal Human Values – 21UH49	Dr. K. SivasakthiBalan	1582 IMF OUT 15822 ME 400	Prof. Rajesh V	AS PURSUNE

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SECOND YEAR / IV - A	Complex Analysis, Probabilty and Linear Programming - 21ME41	Prof. Swathi M	1304 ME 303	Dr. Pandikani M	Periewed asper Schen
	Machining Surface and Jigs & Fixtures – 21ME42	Dr. K. SivasakthiBalan	15B21ME008 15B22ME402 15B2\$ME013	Prof. Vijai R	Cealistel asper Seheme
	Fluid Mechanics – 21ME43	Prof. Yogananda B S	ISD 21 MEDDA 13BH REDDA	Prof. Pandiyarajan V	Revision VI
	Mechanics of Materials – 21ME44	Prof. Rajesh V	15B21ME011 15B21ME403 15B21ME003	Dr. Madhu B	elution has beerdon as percebent
	Biology for Engineers – 21BE45	Dr. Shailashree	130 HARDIO	Prof. Pandiyarajan V	Reviews of party
	Samskruthika Kannada – 21KSK37	Dr. Madhu B	ISB21ME003 ISB22ME403	Prof. Yogananda B S	scheme
	Balake Kannada – 21KBK37	Prof. Pushparaj	1SB21MEDOS 1SB21MED13	Yogananda B S	As parthe Schene
	Universal Human Values – 21UH49	Dr. K. SivasakthiBalan	(SBIME400		AS PLE SCHEME PORTS

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SECOND YEAR / IV - A	Complex Analysis, Probabilty and Linear Programming - 21ME41	Prof. Swathi M	15821 ME 006 15821 ME 012	Dr. Pandikani M	Reviewed as per syllah
	Machining Surface and Jigs & Fixtures – 21ME42	Dr. K. SivasakthiBalan	ISB 22ME 403 ISB21MECOS ISB 2MECOS	Prof. Vijai R	Reviewed sylver
	Fluid Mechanics – 21ME43	Prof. Yogananda B S	15021ME009	D 1! V/	provious person
	Mechanics of Materials – 21ME44	Prof. Rajesh V	ISB22NE402 15B21ME010 1SB21ME002		Charterors has been do as por Scheme
	Biology for Engineers – 21BE45	Dr. Shailashree	15B 22MA02 15B2ME09	Prof. Pandiyarajan V	evaluaria has been den e as
	Samskruthika Kannada – 21KSK37	Dr. Madhu B	1.5B21ME002 1.5B22ME400	Prof. Yogananda B S	As ber sch
	Balake Kannada – 21KBK37	Prof. Pushparaj	15321HEOO1	Prof. Yogananda B S	As per schem
	Universal Human Values – 21UH49	Dr. K. SivasakthiBalan	ISBNMEA03	Prof. Rajesh V	AS POR SCHOOL PAR

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FIRST YEAR/II - H	Mathematics for ME streams –II BMATM201	Dr.Pandikani M	ISB22ME007	Swathia	as perscha
	Physics for ME Streams – BPHYM202	Prof. Kanivalan K	13B22ME004 15B22ME007		the schame
	Elements of Mechanical Engineering – BEME203	Prof. Harish Babu L	15B22MEDA	Prof. Rajesh V	AS PLE SCHENE
	Introduction to Civil Engineering- BESCK204A	Prof. B S Yogananda	1 S B 2 2 M E00) 1 S B 2 2 M E011	Prof. Rajesh Kumar N	is done as per the sch
	Introduction to Python Programming – BPLCK205B	Prof. Reji Thomas	15B 22ME 009 151322ME011	R. Svirankungs	, ,
	Professional Writing skills in English – BPWSK206	Prof. Adisha Manna	CSB 22HE003	Dr.M. Padi	Evaluated as per the schene
	Samskruthika Kannada – BKSKK207	Dr. Madhu B	15B22ME005	Prof. B S Yogananda	As parthe Scheme
	Innovation and Design Thinking – BIDTK258	Prof. Harish Babu L	15B22ME002 15B22ME009	В	if found correct as per schume

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FIRST YEAR/II - H	Mathematics for ME streams –II BMATM201	Dr.Pandikani M	15B22ME004 15B22ME009	Dr. Vishworth	Evaluated as per scheme of:
	Physics for ME Streams – BPHYM202	Prof. Kanivalan K	15B22ME002	Prof. Prakash	velued of per the schere of
	Elements of Mechanical Engineering – BEME203	Prof. Harish Babu L	15B22MF006	Prof. Rajesh V	AS PER SCHEMENT
	Introduction to Civil Engineering- BESCK204A	Prof. B S Yogananda	15822ME005	Kumar N	Evaluation as per the scheme my
	Introduction to Python Programming – BPLCK205B	Prof. Reji Thomas	15B22 MEOS	Sowmans	0 . 1
	Professional Writing skills in English – BPWSK206	Prof. Adisha Manna	15822ME006	Dr.M. Padikai	Evaluated as persolene
	Samskruthika Kannada – BKSKK207	Dr. Madhu B	15B22ME001	Prof. B S Yogananda	AS per the scheme
	Innovation and Design Thinking – BIDTK258	Prof. Harish Babu L	15B22ME001 15B22ME007	Dr. Madhu B	elvavation has been dasper norm

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