

SIDDHANT COLLEGE OF ENGINEERING.

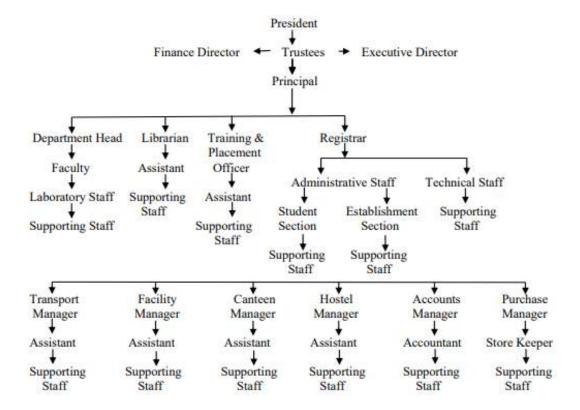
(Approved by AICTE, Recognized by Govt. of Maharashtra and Affiliated to S.P. Pune University & MSBTE)

At. Post - Sudumbare, Tal. - Maval, Dist. - Pune, PIN - 412 109. 202114-661904.

Website: - www.siddhantcoe.edu.in E-mail:engineeringprincipal@gmail.com

Institutional Organization chart for A.Y. 2020-2021

For the effective leadership to be visible in various institutional practices for decentralization and participative management SCOE follows the below Organization chart:-



Prof. U.V.Shinde I/C Principal

INSTITUTE VISION & MISSION

VISION

To make quality the defining element of higher education in India through a combination of self and external quality evaluation, promotion and sustenance initiatives.

MISSION

- To arrange for periodic assessment and accreditation of institutions of higher education or units thereof, or specific academic programmes or projects;
- To stimulate the academic environment for promotion of quality of teaching-learning and research in higher education institutions;
- To encourage self-evaluation, accountability, autonomy and innovations in higher education;
- To undertake quality-related research studies, consultancy and training programmes, and
- To collaborate with other stakeholders of higher education for quality evaluation, promotion and sustenance.

Principal
Siddhant College of Engine
Sudumbars, Pune - 412 10.

ELCTRONICS&TELECOMMUNICATION ENGINEERING DEPARTMENT

VISION

To be one of the best resources in Electronics and Telecommunication Engineering providing competent engineers to serve the society.

MISSION

To enhance creativity in the field of Electronics and Telecommunication Engineering through quality learning-teaching, industry-institute interaction, valueadded courses and projects.

To create professionals with strong technical

knowledge, good analytical aptitude and

entrepreneurial mindset. To enrich student's ethical and social responsibilities.

WES TO SERVICE STATE OF THE SE

Principal Siddhant College of Engineering Sudumbare, Pune - 412 109

IT Engineering Department Vision Mission

Vision

To serve the society in a broc:l range of technology based planning, resources and services to the students and faculties

Mission

To be a leader in providing effective ICT technology and quality services

To support that are integrated into the daily activities of the institute teaching and learning, enhance productivity and safeguard information.

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Principal
Siddhant College of Engineer
Sudum's Pune - 412 10t

Department of Computer Engineering

Vision:

To contribute for society by creating computer engineering knowledge and educating engineers for dynamic and bright future.

Mission:

- The primary mission of our department is to prepare students to become knowledgeable, contributing citizens in a world of diverse cultures.
- Vital to the mission of the department is the discovery of new knowledge through teaching and learning, research and creative activity.
- The role of the dept. Is to nurture and sustain the learning and understanding achieved.
- The Department serves the state, the nation, and the Country by graduating talentedly
 educated engineers, conducting high quality research, developing technologies, and
 disseminating and preserving technical knowledge.
- Department provides innovative educational opportunities and help students for completion of degrees, transfer, career/technical education and basic core skills.

Principal
Siddhant College of Engineerse
Sudumbare.Pune - 412 109

MECHANICAL DEPARTMENT VISION & MISSION

VISION

The Vision is to recognize and outstanding Mechanical Engineering Program in Undergraduate and Post Graduate Level Education.

MISSION

To provide an Excellent education experience for its students. This experience includes an emphasis on the technical, communication, teamwork and life-long learning skills that graduate engineers need to succeed, in both the workplace and society in general.

To prepare the graduate for the professional practice of engineering and / or graduate school. The curriculum emphasizes a rigorous treatment of the mathematical and scientific approach to the solution of engineering problems. It provides a coherent set of courses in Design and structures/ motion in mechanical systems.

To integrate design projects.

Siddhant College of Engineering Sudumbare, Pune - 412 109



Department of Civil Engineering

VISION OF INSTITUTE

NURTURE THE TALENT IN CIVIL ENGINEERING TO WORK AS GLOBAL LEADERS FOR THE DEVELOPMENT OF SOCIETY AND TO BECOME GOOD CITIZENS OF THE COUNTRY

MISSION OF DEPARTMENT

To Provide Quality Education and prepare the nationally competitive engineers for successful carrier in Civil Engineering

Education with the strong fundamentals to create the awareness among students for sustainable development

To cultivate globally employable Civil Engineer

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Principal

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Siddhant College of Engineering Academic Calendar (A.Y. 2020-2021) Semester-I

- 4		Date:-12/06/2020
Sr. No	Activity	Proposed Dates
1.	Internal Academic & Administrative Audit.	Second week of June 2070.
2.	World Yoga Day Celebration [Online].	21* June 2020.
1.	Commencement of Teaching (SE, TE, BE, ME II Year) (SEM-I).	1 st July 2020.
4.	Bakri - Id (Id-Ul-Zun).	1" August 2020.
5.	Departmental In-sem Exam (SE, TE, BE & ME II Year) [Online MCQ's Type] -30 Marks.	3 rd August 2020 to 7 th August 2020.
6.	Declaration of Departmental In-sem Exam Result (SE, TE, BE & ME II Year).	10° August 2020.
7.	Independence flay.	15 th August 2020:
8.	Ganesh Chaturthi.	22 rd August 2020.
9.	IQAC Meeting-I [Online].	28 th August 2020
10.	Parent Teacher Meet [Online].	29 th August 2020.
11.	Celebration of SGI Foundation Day.	1" September 2020.
12.	Celebration of Teachers Day.	5th September 2020.
13.	Commencement of FE & FE Induction programme (SEM-D).	First and Second week of September 2020.
14.	Commencement of DSE & ME I Year. Induction programme of DSE & ME I Year students (SEM-I).	Second week of September 2020.
15.	Celebration of Engineers Day.	15th September 2020.
16.	Mahatma Garidhi Jayanti	2 of tober 2020.
17.	Department wise Practical Conduction of UG & PG [Online].	26 th October to 29 th October 2020.
18.	Id-E-Milad.	30 th October 2020.
19.	Departmental In-sem Exam of FE, DSE & ME I Year [Online MCQ's Type] -30 Marks.	Last week of October 2020.
20.	Declaration of Departmental In-sem Exam Result of FE, DSE & ME I Year.	
21.	Diwali - Lakshmi Pujan.	14th November 2020
22.	Bali Pratipada	16 th November 2020
23.	Department wise Prelim Exam UG & PG [Online MCQ's Type]-50 Marks.	23 rd November 2020 to 27 th November 2020.
24.	IQAC Meeting-II [Online].	27 th November 2020:
25.	Gurmanak Jayanti.	30° Nevember 2020



26.	Occiaration of Departmental Prelim Exam Result UG & PG.	1" December 2020.
27.	End Term Submission (SE, TE, BB & ME II Year).	First week of December 2020.
28.	The state of the s	5th December 2020,
29.	The state of the s	First week of December 2020.
30.	SPPU Practical / Oral Examination (SE, TE, BE) [Online].	First and Second week of December 2020.
31.	Commencement of vacation for staff,	Second week of December 2020.
32.	FE & ME I Year Prelim Exam [Online MCQ's Type]-50 Marks.	Second week of December 2020.
33.	Dad Tone C.A. J. J. Com. C. and C.	Third week of December 2020,
34.	End of Semester I (FE & ME I Year).	Third week of December 2020
35.	SPPU Theory Examination (SE, TE, BE) [Online].	Third week of December 2020.
36.	SPPU Practical / Oral Examination (FE, ME I &I) Year) [Online].	Third week of December 2020.
37.	Christmas.	25th December 2020:
38.	SPPU Theory Examination (FE & ME I Year) [Online].	Last week of December 2020.

- Monthly Defaulter list-End of Every month during academic period.
- > HOD Meeting with Faculty-Every Thursday.
- > Principal Meeting with HoD-Every Friday.
- > T&P activity-Every Thursday & Friday /as per the schedule given by T&P coordinator.

> NSS Activity-2 activities per semester

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Prof. N. Shinde

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CAYMET'S Siddhant College of Engineering Academic Calendar (A.Y. 2020-2021) Semester -II

Sr. No		Dates-28/12/2020
Electronic by	Activity	Proposed Dates
4.	Commencement of Teaching (SE, TE, BE) (SEM-II).	1" January 2021.
2.	Commencement of Teaching ME I & II Year (SEM- II).	Second week of January 2021.
3,	Commencement of Teaching FE and FE Induction programme (SEM-II).	Second week of January 2021.
4,	Republic Day.	26th January 2021.
5.	College level SPPU Convocation Ceremony [Online].	First week of February 2021.
6.	E-Alumni Meet.	First week of February 2021.
7.	Chhatrpati Shivaji Maharaj Jayanti.	19th February 2021.
8.	IQAC Meetiog-III [Online].	26 th February 2021.
9.	Departmental In-sem Exam (SE, TE, BE) [Online MCQ's Type] -30 Marks.	Last week of February 2021.
10.	Declaration of Departmental In-sem Exam Result (SE, TE, BE).	1" March 2021,
11.	Departmental In-sem Exam of FE, ME-I & ME-II [Online MCQ's Type] -30 Marks.	First week of March 2021; 1
12.	Declaration of Departmental In-sem Exam of FE, ME L& II Year Result.	8 Mainty 2021, 2021
13.	Celebration of International Woman's Day.	8th,March-2021a
14.	Mahashivratri.	11 th March 2021, 101
15.	Parent Teacher Meet [Online].	12 th March-2021
16.	Holi [Second Day].	20 th March 2021.
17.	Department wise Practical Conduction of UG & PG [Online].	First week of April 2021.
18.	Good Friday.	2 nd April 2021.
19.	Feedback Analysis [Online].	Second week of April 2021.
20,	Department wise Prelim Exem (SE, TE, BE) [Online MCQ's Type]-50 Marks.	Second week of April 2021
21.	Ludhi Padwa.	13th April 2024.
22.	Dr. Babasaheb Ambedkar Jayanti.	14 th April 2021
23.	End Term Submission (SE, TE, BE) & Prelim Results.	19 th April 2021.
24.	Commencement of Remedial Classes (UG & PG) [Online].	20 ^a April 2021.
25-	Rom Navami	21* April 2021.



Page 1 of 2

26.	SPPU Practical / Oral Examination (SE,TE,BE) [Online]	Last Week of April 2021.
27.	Maharashtra Din	
28.	Department wise Prelim Exam (FE, ME I & II Year) [Online MCQ's Type]-50 Marks.	1" May 2021 First week of May 2021.
29.	End Term Submission (FE, ME-I & ME-II) & Prelim Results.	12 th May 2021
30.	Ramzan -Id [Id-Ut-Fitr],	13° May 2021
31,	End of Semester.	15th May 2021.
32.	Commencement of vacation for Staff.	15th May 2021
33.	SPPU Theory Examination (SE,TE,BE) [Online]	Third week of May 2021.
34.	SPPU Practical / Oral Examination (FE, ME-I & ME-II Year) [Online].	Third week of May 2021.
35.	SPPU Theory Examination (SE, TE, BE) [Online].	Third week of May 2021.
36,	Buddha Pournima	26th May 2021.
37.	SPPU Theory Examination (FE, ME-I & ME-II Year) [Online]	Last week of May 2021.
38.	IQAC Meeting-IV [Online].	28th May 2021.
39.	Commencement of vacation for Students.	31" May 2021;

- > Monthly Defaulter list-End of Every month during academic period. LS May 2021
- > HOD Meeting with Faculty-Every Thursday.
- · Principal Meeting with HoD-Every Friday.
- T&P activity-livery Thursday & Friday (as per the schedule given by T&P coordinator.)
- > NSS Activity-2 activities per semester.

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Page 2 of 2

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Year &

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2) Electric Vehicle

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1) Finde Element Analysis

2)Heating Ventilation and Air Conditioning

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Department of Electronics &Telecommunication

Academic Year: 2021-2022

Semester: - VII

Class: BE (E & TC)

Class Teacher: Prof. A. A. Kokate
CLASS TIME TABLE

w.e.f.15 /07/2021

TIME	8.45 - 9.45	9.45- 10:45	10:45 - 11.00	11.00-	12.00-	1.00-	1.30-	2.30-	3.30- 4.30
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ERFO5	AVB- Prof. Ashwini Bade	CNS	RESEARCH SPECIALISATION LAB	AV8- Prof. Ashwini Bade SVP- Prof. S.V. Patil
CNS RMT	SVP- Prof. S.V. Patil	RMT	INSTRUMENTATION LAB	VSB Prof. V.S. Bhatlawande
SASV'S	VSB Prof. V.S. Bhatlawande	VLSI	RESEARCH SPECIALIZATION LAB	AAK-Prof. A. A. Kokate
/L51	AAK-Prof. A. A. Kokate	I LINE	STECHNIZATION LAB	

Prof. Ashwini A. Kokate

TIME TABLE CO-ORDINATOR

Prof. Ashwini Bade

H.O.D (EATC)

Prof O Shinde

PRINCIPAL



Department of Electronics &Telecommunication

Academic Year: 2021-2022

Semester: -

Class: SE

Class Teacher: Prof. Prabhat Pallav

CLASS TIME TABLE

W.e.f. 15/07/2021

DAY /	8.45 -	9.45-	10:45 -					
TIME	9.45	10:45	11.00	11.00 - 1.00	1.00-	1.30-	2.30-	3.30-
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	Theory	性		Practic	cal/Tutorial
Subje at	Name of the Teacher	and the	Subjec t	Name of the Laboratory	Name of the Teacher
M-III	AT- Prof. A. Takale			The Marian A	V. Strangerstein
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DC	NUK - Prof. N. U. Kure		05	Software LAB	VSB Prof. V.S. Bhatlawande
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Prof. Ashwini A. Kokate

TIME TABLE CO-ORDINATOR

Prof. Ashwini Bade

HOD (EATC)



Department of Electronics & Telecommunication

Academic Year: 2021-2022

Semester: - V

Class: TE

Class Teacher: Prof. N. U. Kure

CLASS TIME TABLE

W.e.T. 15/07/2021

DAY / TIME	8.45 - 9.45	9,45- 10:45	10:45	11.00 - 1.00	1.00-	1.30-	2.30-	3.30- 4.30
MON	CN (PP)	EFT (NUK)		DSP(A1)(AAK)		MC (AVB)	DBMS (AAK)	DC (SVP)
TUE	DBMS (AAK)	CN (PP)	BREAK	ESD(A1)(NSK)	BREAK	MECTIA	1)(AVB)	EFT (NUK
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1897E 3	Theory	HIN REPORT	Practi	califutorial
Subject	Name of the Teacher	Subject	Name of the laboratory	Name of the Teacher
EFT	NUK - Prof. N. U. Kure	ON	SPECIALIZATION LAB	PP-Prof. Prabhat Pallay
MC	AVB -Prof. A. V. Bade	MC	MCA LAB	AVB -Prof. A. V. Bade
DC	SVP- Prof. S.V. Patil	DC	COMNILAB	SVP- Prof. S.V. Patil
DBMS	AAK-Prof A. A. Kokate	DBMS	RESEARCH SPECIALIZATION LAB	AAK- Prof. A. A. Kokate
CN	PP-Prof. Prabbat Pallov	EMIL	B. ELECTRICAL LAB	NUK - Prof. N. U. Kure
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Prof. Ashwini A. Kokate TIME TABLE CO-ORDINATOR Prof. Ashwini Bade

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Department of Electronics & Telecommunication

Academic Year: 2021-2022

Semester: - I

Class: ME FE (VLSI & EMBEDDED SYSTEMS)

Class Teacher: Prof. M.U Inamdar

CLASS TIME TABLE

DAY / TIME	8.30 - 9.25	9.25- 10:20	10:20	10.50-	11.45-	12.40-	1.30-		3.20-
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	Theory		Practical/1	utorial
Subject	Name of the Teacher	Subject	Name of the Laboratory	Name of the Teacher
RC .	NSK- Prof. N.S. Kulkarni	RC	RESEARCH SPECIALIZATION LAB	NSK- Prof. N.S, Kulkarni
WSN	VSB- Prof. V.S. Bhatlawande	WSN	SPECIALIZATION LAB	VSB- Prof. V.S. Bhatlawande
ESD	AV8 - Prof. A. V. Bade	ESD	MCA LAB	AVB - Prof. A. V. Bade
RM	SVP- Prof. S.V. Patil	RM	RESEARCH SPECIALIZATION LAB	SVP- Prof. S.V. Patil
D- CMOS	JRP- DR. J. R. Panchal	D-CMOS	RESEARCH SPECIALIZATION LAB	JRP- DR. J. R. Panchal

Prof. Ashwini A. Kokate

TIME TABLE CO-ORDINATOR

Prof. Ashwini Bade

H.O.D (E&TC)



Department of Electronics &Telecommunication

Academic Year: 2021-2022

Semester: - III

Class: ME (VLSI & EMBEDDED SYSTEMS)

CLASS TIME TABLE

W.e.f. 1/8/2021

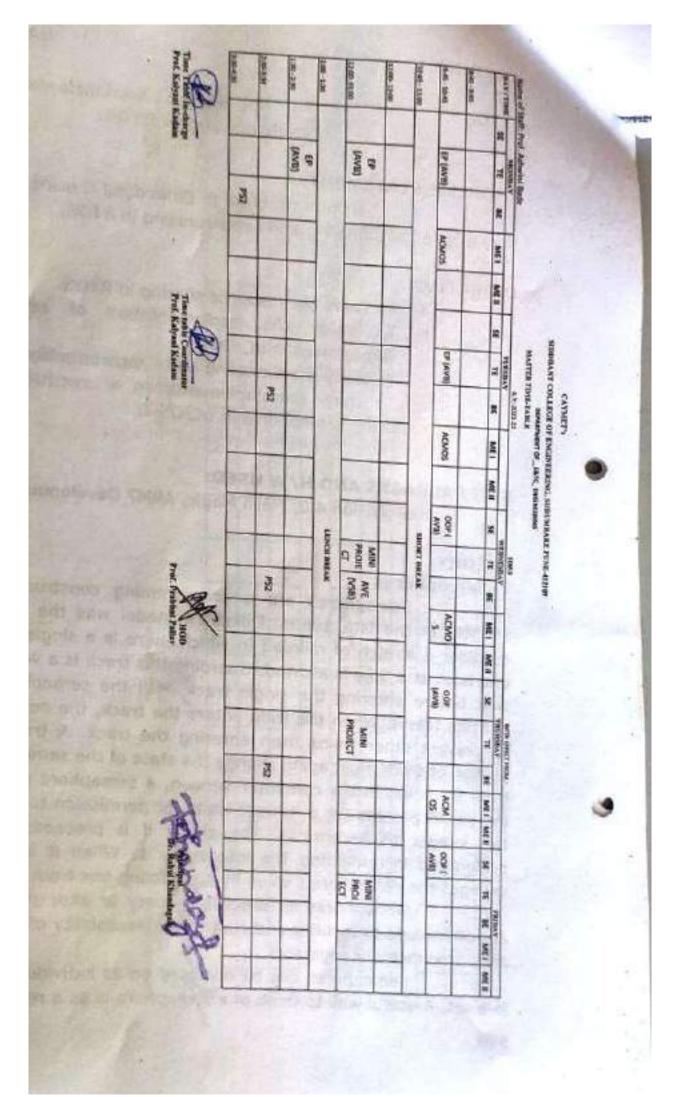
DAY / TIME	8.30 - 9.25	9.25- 10:20	10:2 0 - 10.5 0	10.50- 11.45	11.45- 12.40	12.40 -1.30	1.30- 2.25	2.25- 3.20	3.20- 4.15
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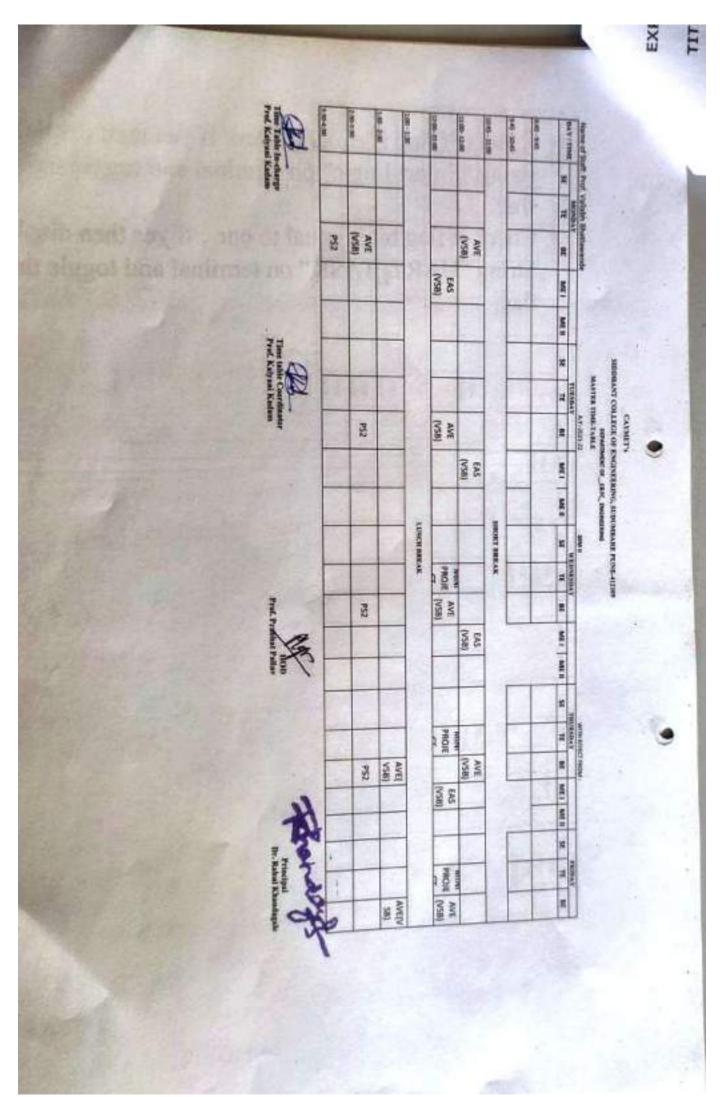
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Subjec	Name of the Teacher	Subject	Name of the Laboratory	Name of the Teacher
ELCT-	VSB- Prof. V.5. Shatlawande	ELCT-HI	RESEARCH SPECIALIZATION LAB	VS8- Prof. V.S. Bhatlawande
ASIC	NSK- Prof. N.S. Kulkarni	ASIC	RESEARCH SPECIALIZATION LAB	NSK- Prof. N.S. Kulkarni
TVVC	AAK- Prof A. A. Kokate	YVVC	RESEARCH SPECIALIZATION LAB	AAK- Prof A. A. Kokate

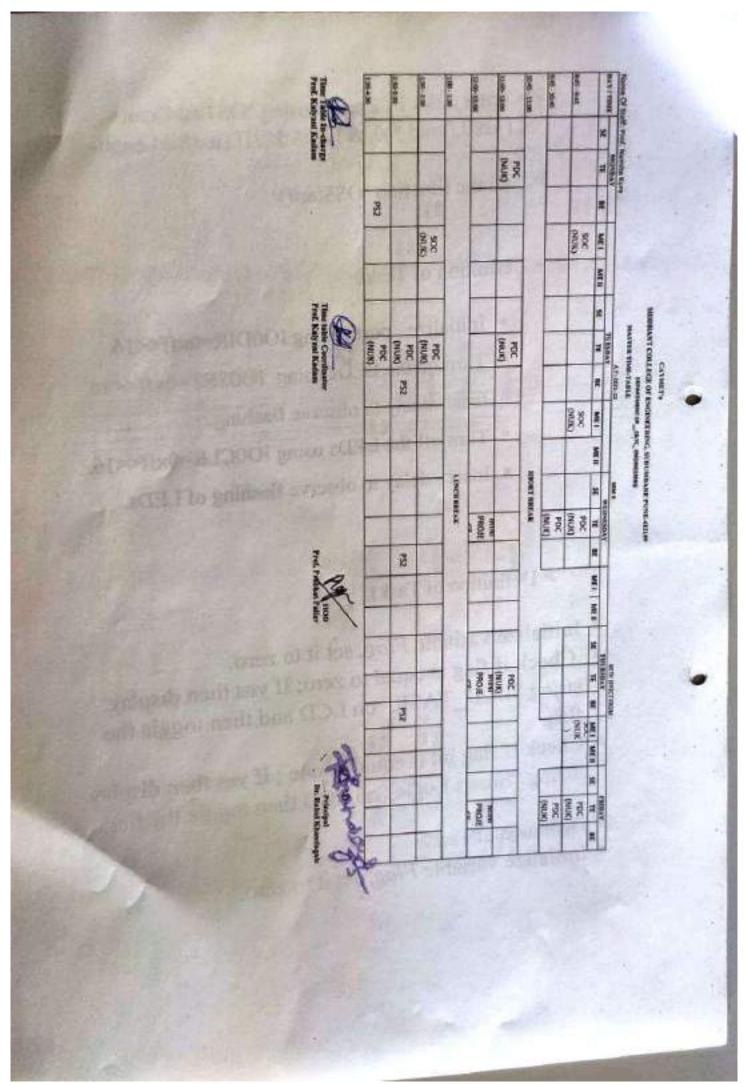
Prof. Ashwini A. Kokate
TIME TABLE CO-ORDINATOR

Prof. Astroini Bade H.O.D (E&TC) PRINCIPAL

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TI CO-ORDINATOR

BL-IL BETE BETE

Prof. Chandrabhothan Sharma(CBS)

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Class TILSE SE, BE

Faculty Name
Dr. Brijchdra Gupta (BG)
Prof. Raeften Kulkarni (BG)

Subject Name Class CG, CGL, DCS, CL-IX SE, BF

SE BE Prof. Jord Physikus (P)
SE BE Prof. Javes Physikus (P)
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Department Of Computer Engineering ACADEMIC YEAR 2021-22 ONLINE LECTURES TIME TABLE

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SEM-I

Class - SE

TIME	Mus	Tue	Wed	Thers	Fel	
10:00 to 11:00 PM	DM (RP)	DM (RP)			DEL & D (MD)	
11:00 to 12:00 PM	CG	OOP	00P	OOF	OOP	
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1:00 to 2:00 PM	FDS	FDS	FDS	DEL & D	CG	
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2:06 to 3:00 PM	DEL & D	DEL & D	CG	CG	FDS	
	(MD)	(MD)	(CPS)	(CPS)	(XI)	

Subject Name	Faculty Name
Discrete Mathematics(DM)	Prof Rupuli Panpaliya (RP)
Fundamental of Data Structure(FDS)	Prof. Kavita Jadhav(KJ)
Object Oriented Programming(OOP)	Prof.Sund Yadan(SY)
Computer Graphics(CG)	Prof.Chetana Pradip Shravago(CPS)
Digital Electronics & Legic Design (DEL & D)	ProCManuha Dunk(MD)

Prof. Chetana Shravage

TT CO-ORDINATOR

Prof. Sunit Yoday HOD

Prof. U.V.Shinde

CAYMET'S

SIDDHANT COLLEGE OF ENGINEERING, SEDUMBARE, FUNE

Department Of Computer Engineering ACADEMIC YEAR 2021-22 ONLINE LECTURES TIME TABLE Class - TE

SEM-I

TIME	Mon	Tae	Wed	Thurs	Tri	
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	(AT)	(KJ)	(AT)	(KJ)	(AB)	
I:00 to 2:00 PM	SPOS	IOT & ES	IOT & ES	EST & ES	SPOS	
	(KJ)	(AB)	(AB)	(AB)	(KJ)	
2:00 to 3:00 PM	TOC	TOC	TOC	TOC	DBMS	
	(SM)	(SM)	(SM)	(SM)	(CPS)	

Subject Name	Faculty Name
Database Management System(DEMS)	Prof.Cherana Shravago (CPS)
Theory of Computation(TOC)	Prof Seeme Mahalungkar(SM)
System Programming & Operating System(SPOS)	Prof Karrita Jadhav (KJ)
Computer Network & Security(CN & S)	Prof Aparus Thakre(AT)
Elective-Linconet of Things & Embedded System (IOT & ES)	Prof.A. Bagwen(AB)

Prof. Chetana Shrayage. TT CO-ORDINATOR

Prof. Smil Yaday HOD

PRECIPAL

CAYMET'S SIDDHANT COLLEGE OF ENGINEERING, SUDUMBARE, PUNE Department Of Computer Engineering ACADEMIC YEAR 2021-22 ONLINE LECTURES TIME TABLE Class - BE

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3:00 to 2:00 PM	DA (SS)	DA (SS)	6-ti 5TQA (SY)	E-B STQA (SY)	E-II STQA (SY)	
2:00 to 3:00 PM (SS)		E-BI STQA (SY)	HPC (58)	HPC (SS)	HPC (SS)	

Subject Name	Faculty Name				
High Performance Computing(HPC)	Prof Sustma Shinde (SS)				
Amificul Intelligence & Robotics(Al & R)					
Data Analytics(DA)	Prof Sushma Shinde (SS)				
Elective-I flata Mining & Watchmuning(DMW)	Prof Scotta Mahalangkar(SM)				
Elective-II Software festing & Quality Assumance (STQA)	Prof Sonii Yalax(SY)				

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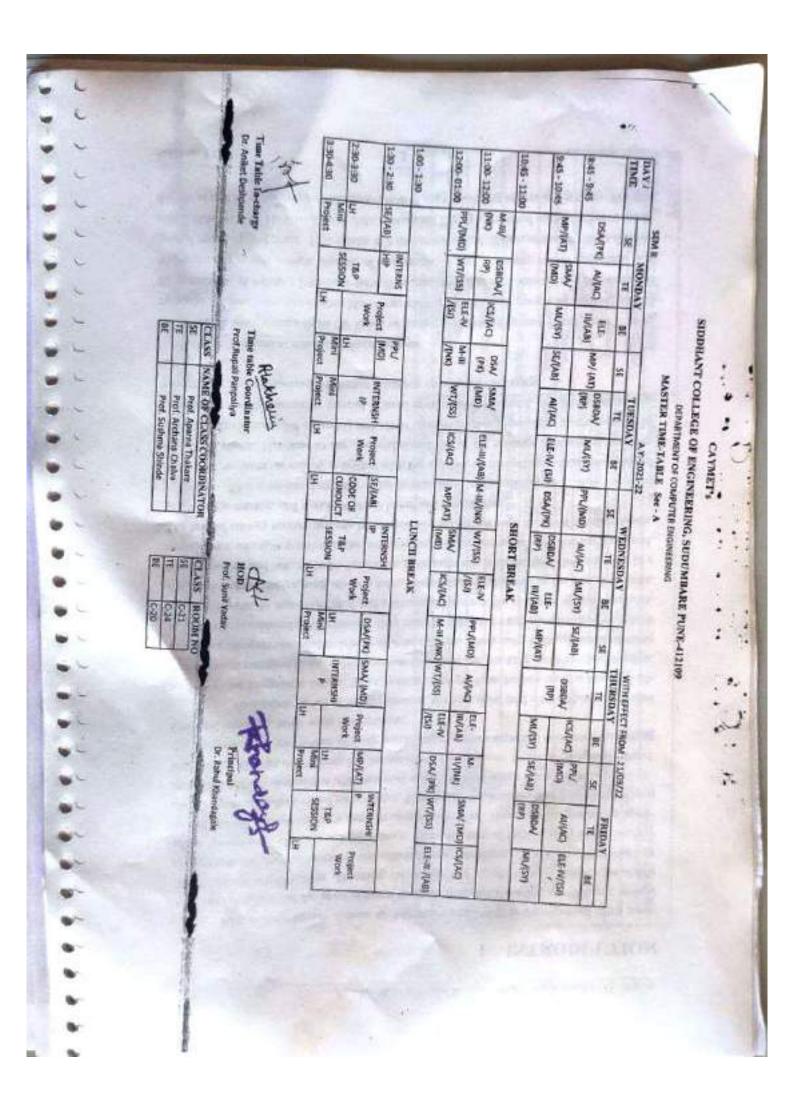
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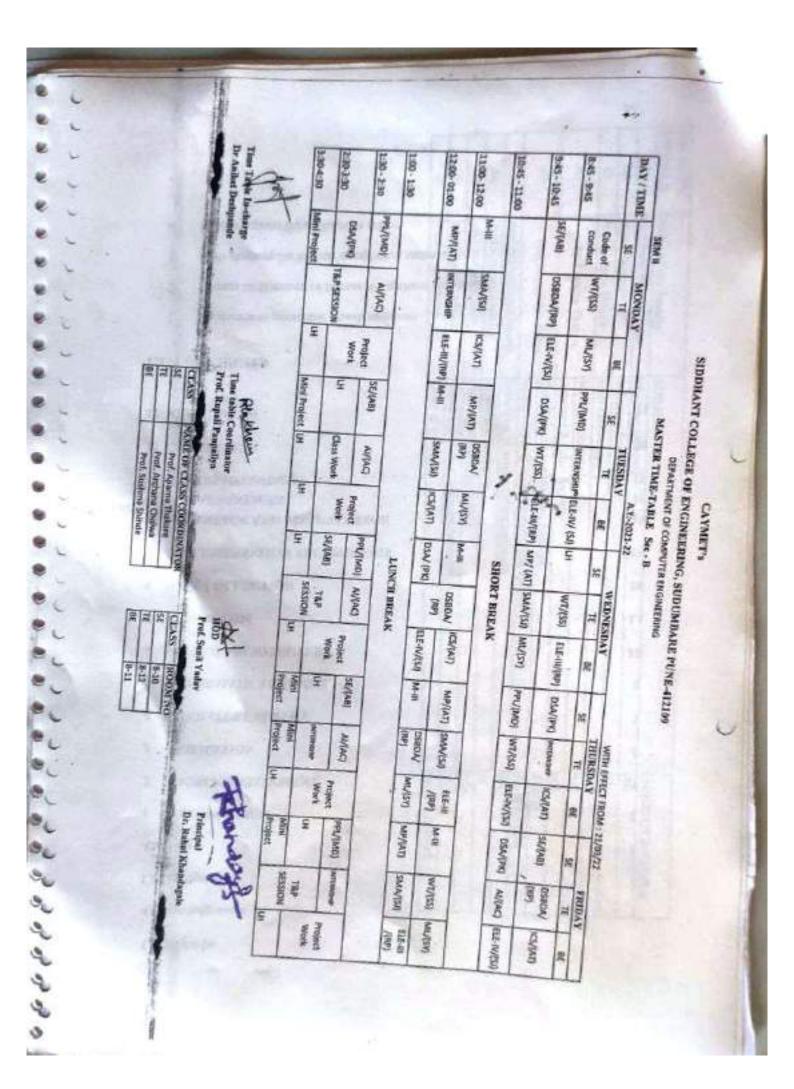
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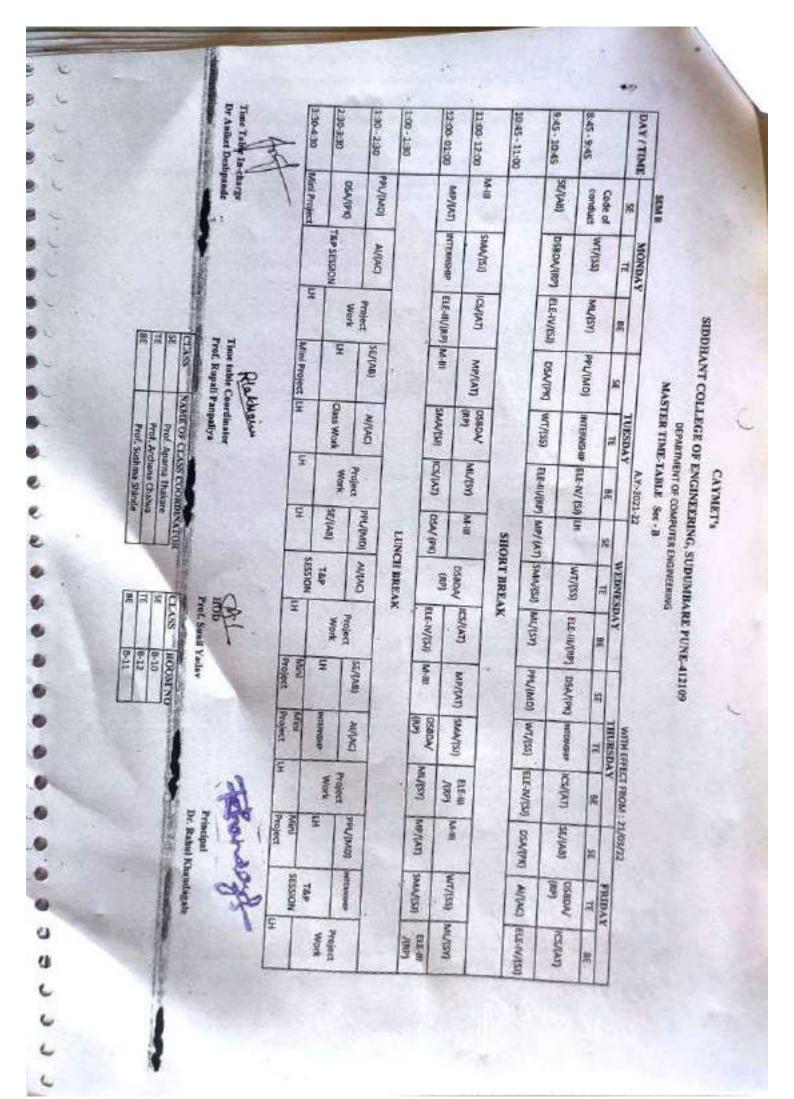
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Prof. Chefana Skravage TT CO-ORDINATOR I Storde

Frof. Soull Vada HOD Prof.P.V.Shinde







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Time Table coordinator

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	CM(B2)		8	REAK	7	T	EAN.	REAK	APC		DHS	78	W	MASTI										
= /	(88D)		E	T	0.00	GTH	Md			9	900	6 10	3RS		ARTME ZR TIME									
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CERTIFICATE OF COMPLETION

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Subject Teacher

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OF

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SIDDHANT COLLEGE OF ENGINEERING

Sudumbare, Pune – 412109
Department of E&TC Engineering
A.Y. – 2021-22

Subject - Electronic Greats

CONTENT

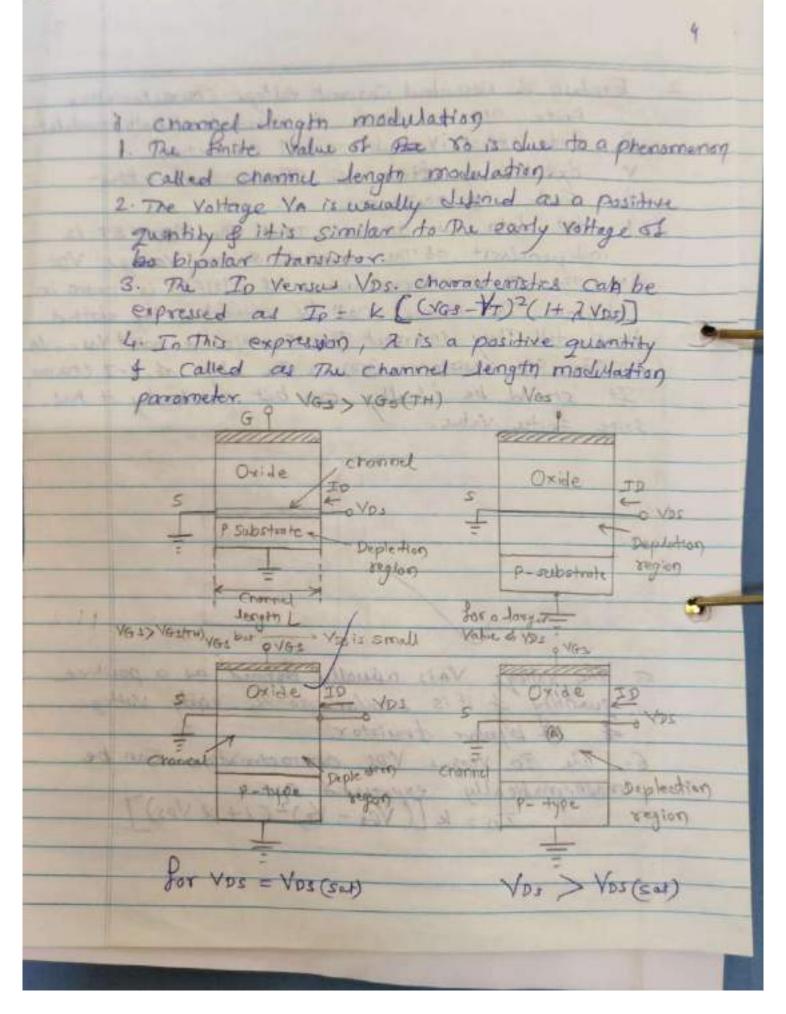
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Subject Teacher

fageNo-1 Topic & Electrock Crowits - unit I Draw The Constructional diagram of N Channel E-MOSTER & Give Lown and doansfor Characteristics for The nessessary parameters. -SO2 layer Doning (D) n-type doped region Channel is absent P. type Gate(G)a Substite (substrate Source (S) Drain characteristics : 1. Drain characteristies is a plot of down current (On Y- axis) versus drain to source voltage Vos (on x - axis) at different values of gate to Source Voltage VGs. The draig characteristics has been divided into Three regions i.e. cutoff, saturation and obnic organ. Cutost region : 1. It corresponds to skain Current To= D 2. At a certain veltage called Vas (off) The drain Comment reduced to zero. 3. Hence The cutoff region corresponds to Ip=0\$
YGS. & YTH 4. The E-MOSFET operates as an open circuted Switch in This region: saturation region is Their portion of the characteristis

Where I'm remains fairly constant of obes not change with changes in Vos 2. The Saturation is entirely different Than The saturation in a traslator 3. In order to use The E-MOSFET as an amplifier it is operated in the saturation region. 1. The Arain Current To Varies with Variation in The drawn to Source Voltage Vos, in The Ohmic region. 2. The Masfet is therefore said to be operating as a Voltage Variable Resistance (VVR) in The onnie region: 3. It is equivalent to a closed south in This region Saturation a Vac(V) ta IN THE E-MOJEET OPERATER OF ON Switch to the president Advertise order to their sucher of the

2. Explain De non ideal current valtage Characteristics . Enite OIP resistance is channel length modulation iii. Body effect iv subthreshold conduction V. Breakdown effect vi Temperature effect i finite op presistance 1. tet lets is assume That The MOSFET is independent of The way to source Voltage Vos B). The I-V charactemetres of MOSFET is shown in diagram . The curves can be extended by dotted lines till They intersect The x- axis at point You -- VA 4. The OIP Sesistance (80) is The slope of V-I Charac It should be ideally on but proctically it has A Slope = Yes some Smiter Value. 5. The voltage Vais usually defined as a positive quantity of it is similar to The early Voltage of the bijeslar travistor. 6. The ID Versus VDs characteristics can be mathematically expressed as, ID = KL(VGs - V7)2(1+2 V05)7



- at which The inversion charge goes to zero, moved away from The charge terminal.
- 6. Rendere The effective channel length decreased
 This prenomenos is called as channel length
 Modulation
- 1. The operation of a Mosfet has been explained by assuming That the body or substrate has been connected to source.
- 2. When The 2 MOSFETS are conducting, The chain to Source Voltage will have a nonzero Value.
- (3) when body and source are connected together, The threshold voltage VT is contant.
- 4. Therefore The source terminal of M2 will not be at The subtrate potential (ground)
- 5. That MI & M2 gre at Sterent potentials
- The Source to body Jandion.
- 7. And change in The Source body Junction voltage will change the Threshold Voltage. This is called Body effect.

iv substructed conduction

1. It an n-channel Mosfet is blosed to operate in sederation region Them The ideal current voltage reladionship is expressed as

Io = K (Vas - VT)2 2. Taking Sequere root of both sides we get VID = VK (YO3 - VT) = VK VG3-VK YT 3. This expression represents a straight live That means VID has a linear relationship culto Vas. Exproventel / relationship beto relation V50 \$ V91 4. But postically we don't get This linear relationship The practical etameratics is non-linear as shown by dotted characteristics 5. The dotted characteristics also shows That The drain current is non zumo for Y'GE LVT, where Therottically it should bezero 6. This current is called as subthreshold Commt. V. Breakdown Effect. 1. Avolence breakdown: If way (nt) to substrate (P) , P-M Junk 15 subjected to a This jum may break down due to avalanche breakdown.

2 punk Pumen through breakdown: Amother type of breakdown mechanism is punch through effect. This effect may occour it size of device becomes smaller. As The chain Voltage is increased beyond aparticular value, The deptetion region around The aspin will extend completly through he channel to source terminal. This is called as punch through.

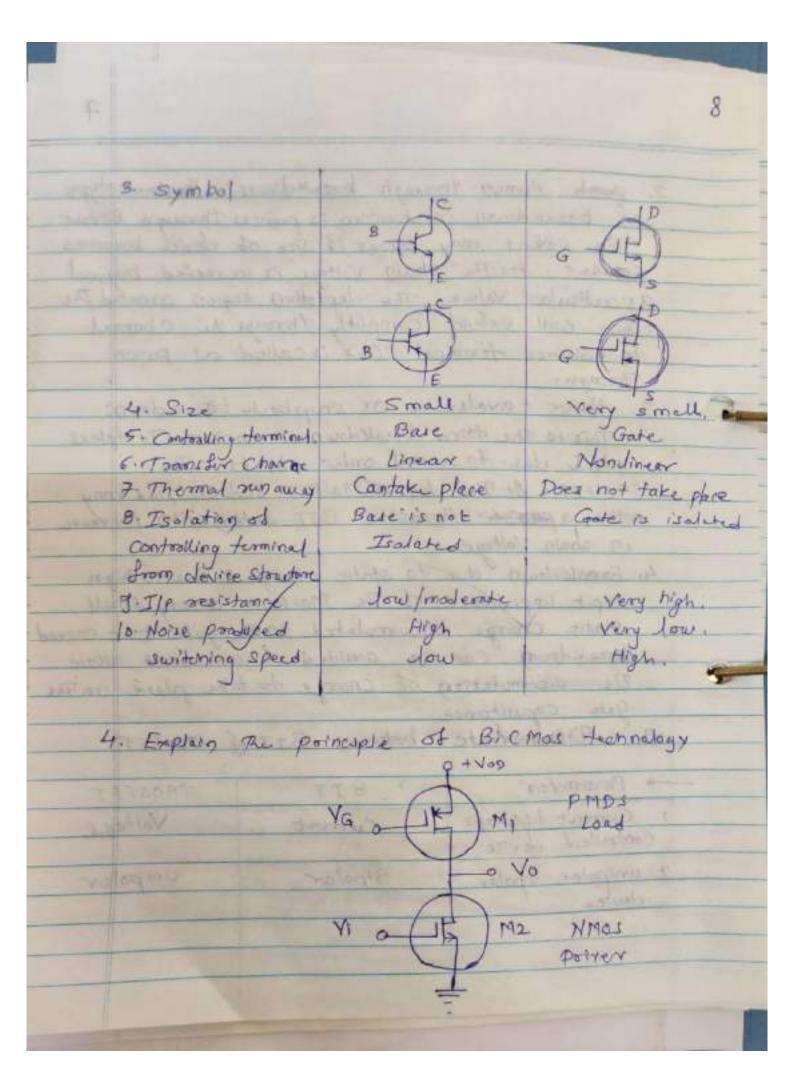
3. Near - avalanche or snapbach breakdown:
This is the third breakdown meethnism. It takes place due to second order educts within Mosfet. At The due of Mosfet order, we may notice a parish. Parasitie BJT action with increase

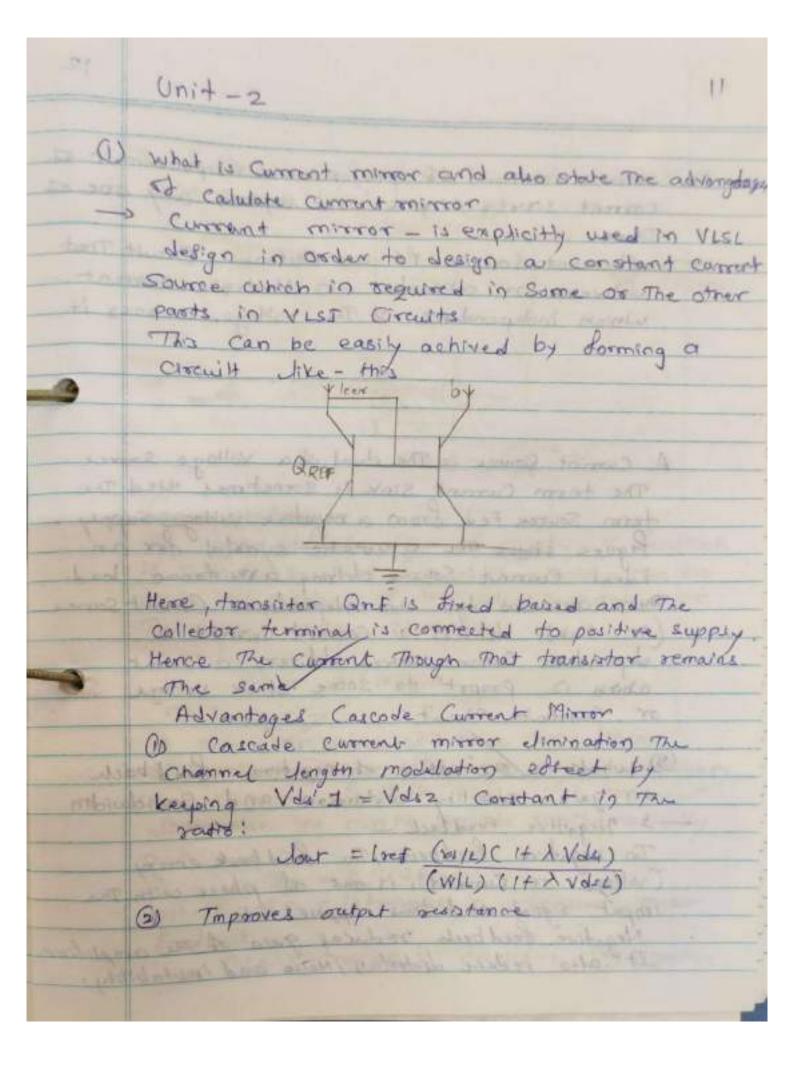
in wain Voltage

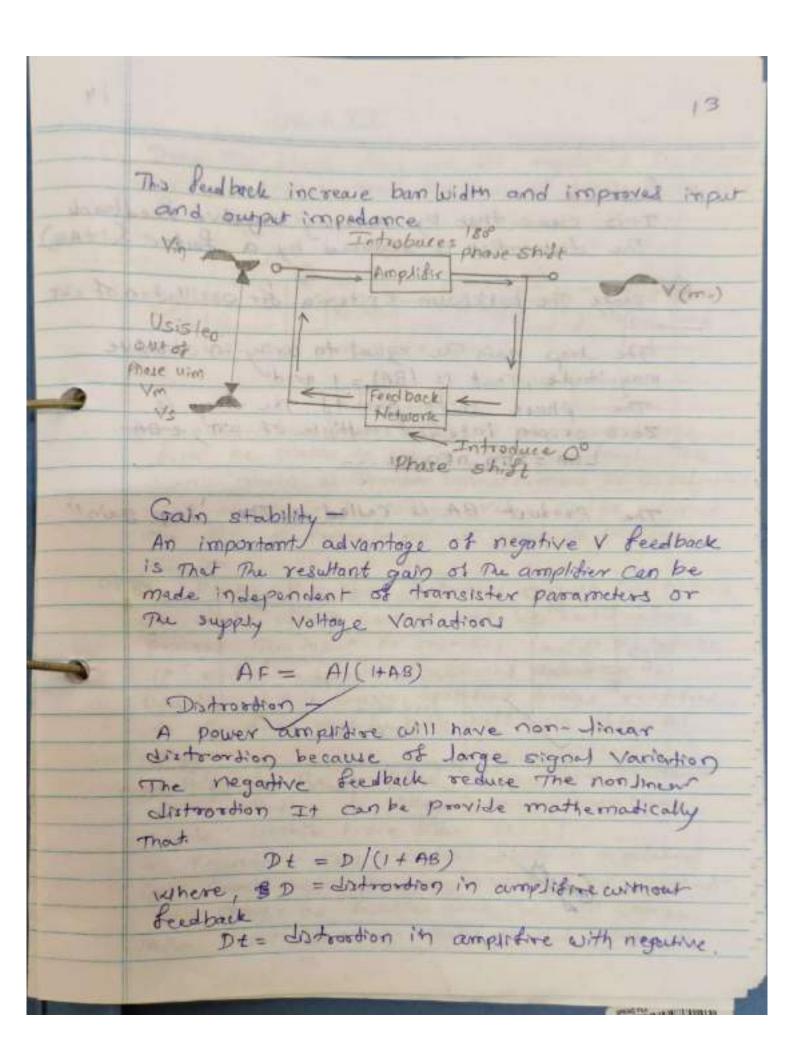
4. Breakdown due to static charge ? Due to high input impedance of the Mosfet, a very small static charge accumulated on the gate can exceed breakdown can be avoided if we don't allow the accumulation of charge to take place on the gate capacitance.

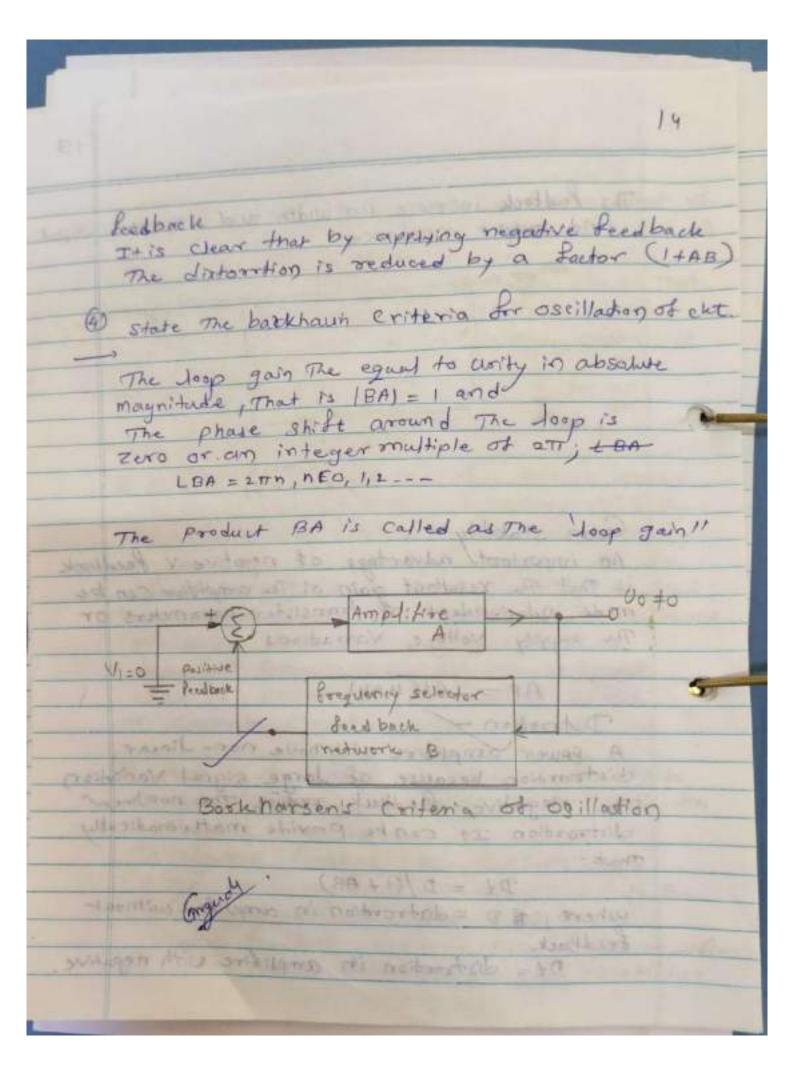
3. Disterentiate between BIT & MOSFET

-> Parsameter BJT	MOSFET
1. Current / Voltage Current	Voltage
controlled device	
2. unipolar Hipolar Bipolar device	Unipolar
device	
2001k 201 41-10 "	
Wallet To The Wallet	







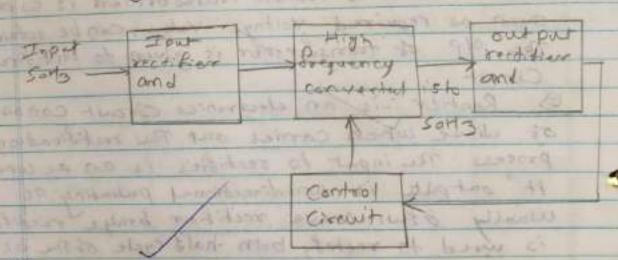


15 Unit III 1 Draw The block diagram of regulated De power Supply. explain The function of each block init Ym Sinut 1) stepdown transformer's- It will stepdown Voltage from Ac mains to required voltage fevel . The Humis ratio of Fourant transformers is so adjusted such as required voltage value can be optained The OIP of transformer is given to rectifirer Circust @ Rectier :- is/an electronics circuit consisting of diote which carries out The rectification process . The input to rectifies is an according it output is unidirectional pulsating oc. would aful wave rectifier bridge rectifies is wred to rectify both half cycle of one as Supply: league togics say say -3) Litter: - The rectified Voltage from rectifier is a palsating de Valtage having very high ripple content hence filter is used. 4) Regulator: - This The Last block in regulated De power supply the output voltage as current WIII change as fuenate when There in change Inthe input form are mains as due Change 10

Lord current at the output of the regulated power supply due to other factor like temperature change this problem can be eliminated by using a regulator this problem can be eliminated by using a regulator that A regulator will maintain the output constant even owner charge at the input as any other changes occur.

(2) with help of block diagram explain The basic smps.

-> The working of smps can be understand by following figure



O I put stage: - The AC input Signal some is given directly to rectifier and bilter circuit combination with our warring Actions and The capacitance value of the capacitor should be higher to handle on up fuctor that we regulated De is given to central switching seation of STAPS.

2) Switching Sketton &- A fast switch devices such as power transistor as MOSFET is employed in This section which switches on and off according to The variations and This output is given to primary of the transformer present in This Section The transformer wed are rouch smaller and ligher unlike used in Cotto 3) output stage :- The output signal form The Switching section is again rectified and filtered to get The required DC. Voltage which is given to The control Ciralt which feedback Cirain The final output is obtained after considering The Seedback Signal. 4) control unit: - This is decidence circuit has many section The following figure shown below. Isolation output OSCILL OCTIV The above figure explain loner part of a control unit. The output sensor The Signal and joins it is do The control unit. The signal is isolated from The other section somat sudden spikes should not affect The circultary A referate Voltage is given on one input along with signal to error amplifier which is comparator that compares

This Signal with required Signal Jevel by Controlling
The Chopping frequency The final Voltage Jevel is
maintained this is controlled by Comparing input
given to error amplifier, whose Off help
to decide whether to Increase as oscillator
Produces a standard Parm wave fixed frequency.

3) Describe the boost convertor of buck boost convertor

Boost Convertor: De-De Convertor are also known
as chapper A stepup chapper is called as boost convertor. It increase the input De Valtage to
specified De output Voltage. A typical boott
convertor is shown bellow

The input voltage is connected to an inductor.

The Solid - state device which operate as suiteh is

connected devois The Scoure The Second switch

used is diade. The diade connector to capacitor

and The load and two are connected in parallel.

The inductor connected to input source load

convertor to seen as constant and thus The Boost

convertor to seen as constant current input source.

The controlled switchis turned on loft by using

p win. Prun can be time based as fraguncy based.

Boost con Vertor has two mode of operation.

inductor is made continous. Inthis emergy is stomed and mode switch is off and diode is on. In This mode, imany stored in inductor is released This helps to maintain flow of current in some director.

Buck boost Convertor: The buck boost convertor is

type of Die-De converter so Calsoknown aschopper)

That has an output voltage maginitude either genter

Thom or less Thom The input voltage, magnitude it.

is equivalent to Slybeck convertor using a single

inductor instead of transformer two different

topologies are called as buck boost convertor

De-De convertor also known as cropper Here we

have de look at buck Boost convertor which operative

as De De stepdown convertor as De-De stepup

convertor depending upon The duty cycle.

The input Voltage is connected to solid state device The second switten used it a doode. The chode is connected in prevence direction of power follow from source to a Capacitor, and Lord are connected in parellel. The controlled switten in to an and off wing parellel. Pur can be time base as frequency

1st mode switten is on and Diede off. Current flow to Inductor and back to de input source Indicator stage change during this when switch is off polarity stage change during this when switch is off polarity. Inductor reverce and current through bond Inductor reverce and back to Inductor.

Through diede and back to Inductor.

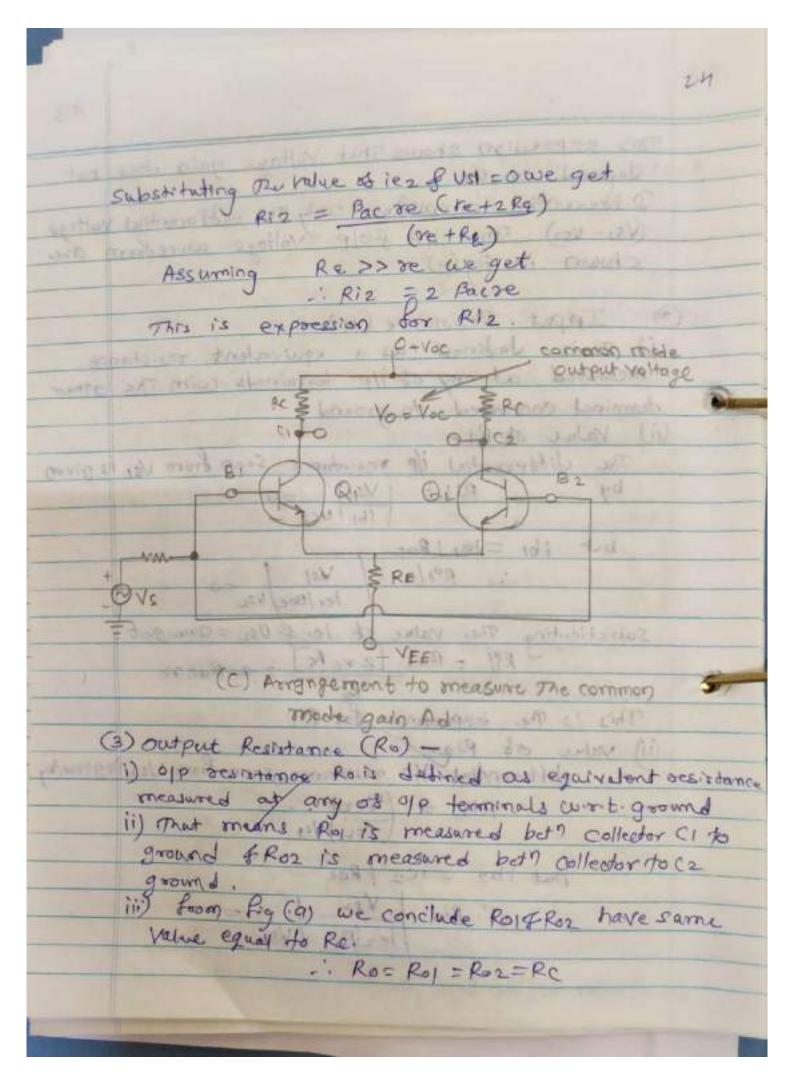
2nd Made Switch off and diede on.

4) companison between linear and switching mode regulator.

	9 64 001000		
	solden and alle	Linear	_cwidehing
29	miss paper of	Regulator	Regulator.
	1) components	Linear components	switch regulator
3	used	such as restator	switch elements
	Cal Congress Alex	Load to regurates	to transform The
10	Tehners Comme	at their Built	incoming supply in
-	- 20 DC - 3C VA -	the deep converts	Phoned Voltage.
	الد والمولي دياداد	Tought whoody	MOSFETTATE
	2) CIVEN'H	simple circuit	uned.
			Complex Office (1)
	37 efficiency	Lower edicioney	High efficiency
	4) Buck boost	Not Assible	Buck / boost/
	4) Buck boost	to Bookt	My negative Voltage
	7/		operation positive
10	s) Heat generaling	Generation heat	generation tent
	67 Noise Jevels		generation
	- walth mount	Low noise	Increase
171	Marker boal born	to a cameller -	noise.
170	67grad	direct ballions with	
314	ATT OF STATE OF	to all many . Many .	

ASSIGNMENT NO-4 Q.1. Analyze The dual input balanced output differential. amplifier to obtain the following: Differential gain 2) common mode gain 3) 0/P resistance 4) I/P resistance. Ansi) To perform The ac analysis ordual input balanced output differential amplifier, following are The steps-Step 1 = Set The de Voltages + Vec & - VEE to Zero i.e. short Them to ground Step2 - Replace The transistors Q1 & Q2 with their Small Signal T- equivalent models. 11) fig (a) shows The resulting aceguiralent court of The dual - input balanced - output differential amplifier. 111) As IE, = IEz, we can write That oc, = rea Hence A ac emitter resistance of toansistor Q1502 one equal to reic. re- rez = re iv) The Voltage across each collector resistor Re is out of phase by 180° court. Us & Vsz. Note That Polarity assigned to OTP Voltage Vo. It indicator voltage at collector (215 more Positive to voltage at c, Differential gain output Voltage Vo= RC (Vs1 -Vca) In this equation The term Us1-Vs2 = differential ilp Voltage Vd. Us1 - Vs2 = Vd to swow to the born there were (4)

The voltage gain of dual input balanced output differential amplifier Ad = Vo = Re A positive goin indicates That Vo & Vd are in phase colon each other. output voltage Vo (a) AC equivalent circuit of dual input balanced output differential amplifier gotter metaling, Voltage matter motor pot phatomer whoold at deleder 10 th most plantes we had Olar Istanstin (>Timet (b) I mu Input and output waveforens.



4) Common mode gain i) The common mode voltage gain can be optained by applying a common signal ilp vs to both ilp al Shown in Rg (c) of measuring The common mode ofp Voltage Voc bet? The collector of two transistor i) The Common mode Yoltage gain is given by Ac - Voc 1 Q12 Define The characterrities of a practical op-amp 1) IIP obtset Voltage 2) CMRR 3) PSRR 4) Slew rate Ans: (1) TIP offect Voltage i) A small differential i/p voltage That is required to be applied to an operamp in order to make its ofp zero is called as ifp offset Voltage ii) The ip obsect voltage is denoted by Vios iThe ilp obsect Voltage is normally in a few MV range. The Value of ill offset voltage is temp, dependent Ideally Vias should be equal to zoro. 2) Common Mode Rejection Radio (CMRR) - 11) is for an op-Amp, The common mode rejection tradio. is defined as The roadio of differential gain to common mode gain. . : CMER (P) = Ad ii) omer indicate The capability of the op-Amp to successfully reject The common mode signals. cmpe is denoted by of it is generally expressed in decibels

iii) comes should be as high as possible to reject The Common mode signals such as noise successfully 3) Power Supply Rejection Ratio (PSRD i) The change in an op-Amps 1/p obliset voltage (Vias) Luc to variation in The Supply Voltage is called as power supply rejection radio R(PSPR) ii) Mathermatically PSER = DVIOS AV Whene A Vios = change in i/p offset Willage AV = Change In The supply Voltage It expressed in micro volta per volt or indecibles (iii) The value of PSPR should ideally beg equal to zero & fontically it should be small as possible Solow Pate - 10 11 author 1 1 1 1 i) stew rate defined as man's rate of charge of of voltage per unit time Mathematically SR = dvo / Volts/w dt /majom (ii) The unit of slew are with Improveronds. Q3 why De level shifting is required in LTE 9 Draw fexplain various level shifting circuits (1) When The 11p signed passes from the one stage to the other its de level gove on increasing Due to increased Le devid output tollrage gets Introoped . It also limits the major output

28 Q4 what is stew rate 9 what are its caused 9 Derve an expression for max. Ing ? of operation for desired op swing in terms of slew Rate Ansi- Definition: - slew that defined as The maximum Rate of change of OJP Voltage per unit dime Matherradically it is expressed. SR = dro / max m Volts for ii) que unit 08 stew Rate are volts/microsmods ii) slew rate Secided The Capability of op-Amp to change its 010 rapidly hence it decides The highest frequency of operation of a given op-Amp iv) The Value of Now vare depends on the charge in voltage gain Therefore it is generally specified at waity gain. V) slew rate should be ideally & Portrally as high as positive possible. Vi) value of slew rate of an op-Amp delides The roaxin frequency (fo) which can be amplified by The op- AMP without Introducing any distortion othere Vm = peak i/p Voltage.

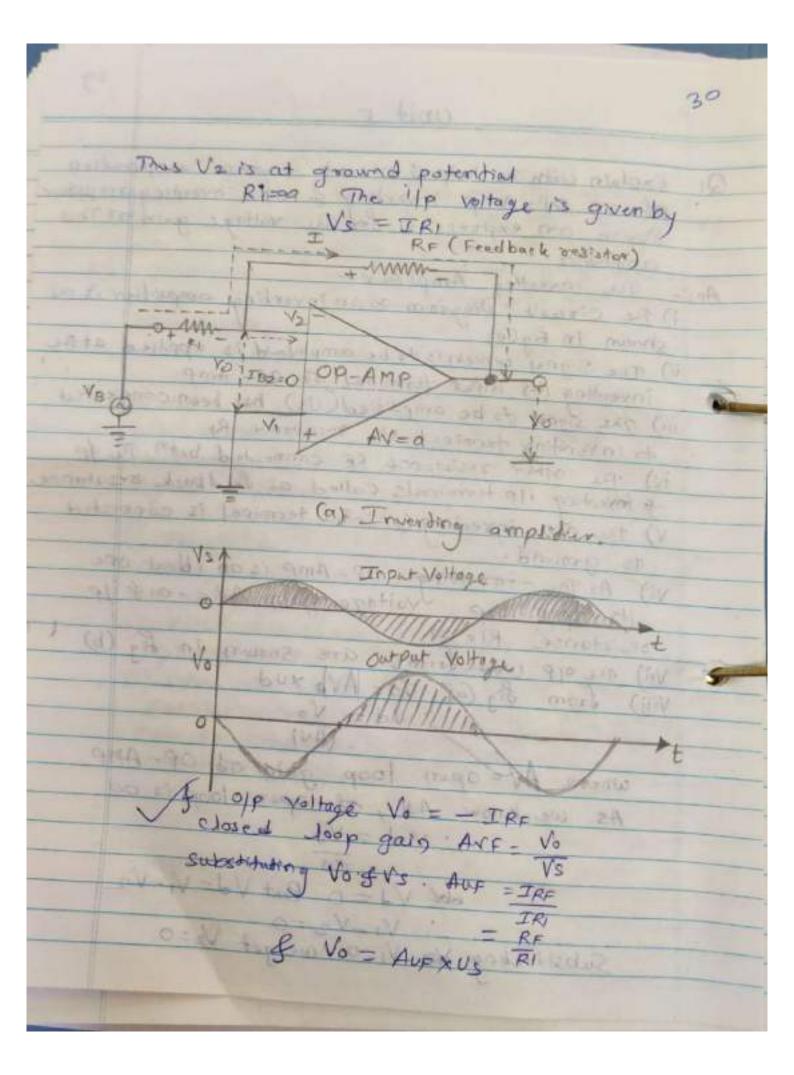
unit 5 QI Explain with me help of circuit Dingram The operation of an op-Amp inverting & noti- inverting amplifier Device an expression for The voltage gard of This amplifier. Ans! - The inventing Amplifier -1) The circuit Diagram of an inverting ampether is as shown in fig (a) ii) The signer which is to be amplifued is applied at the inverting (-) input terminal of of - Amp iii) The stynal to be amptified (Us) has been connected to inveniting terminal Via restratance RI iv) The other resistance RE connected bett The opp of inverting ilp terminals called as feedback oresistance. V) The non-inverting (+) influt terminal is connected to ground. vi) As The - inverting . OP - Amp is an ideal one. its open loop voltage gain AV = - 00 filp resistance Ri= 00 Vii) The off wave forms are shown in Fig (b)

: Vd = Vo (AV)

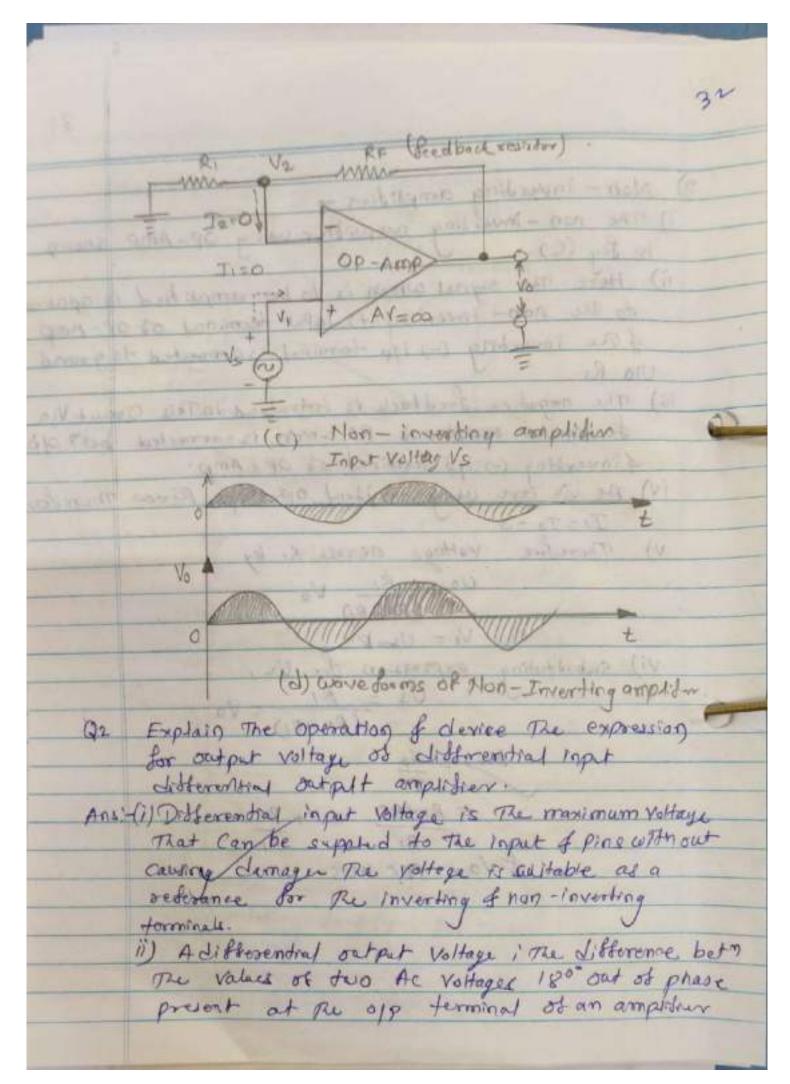
where At-opin loop going of OP-AMP As we know AN, of open loop is 00 av vd = Vo

dx VJ = 0 But VJ = V1 - V2

V1-V2=0 Substituting to Vi=0 are get V2=0



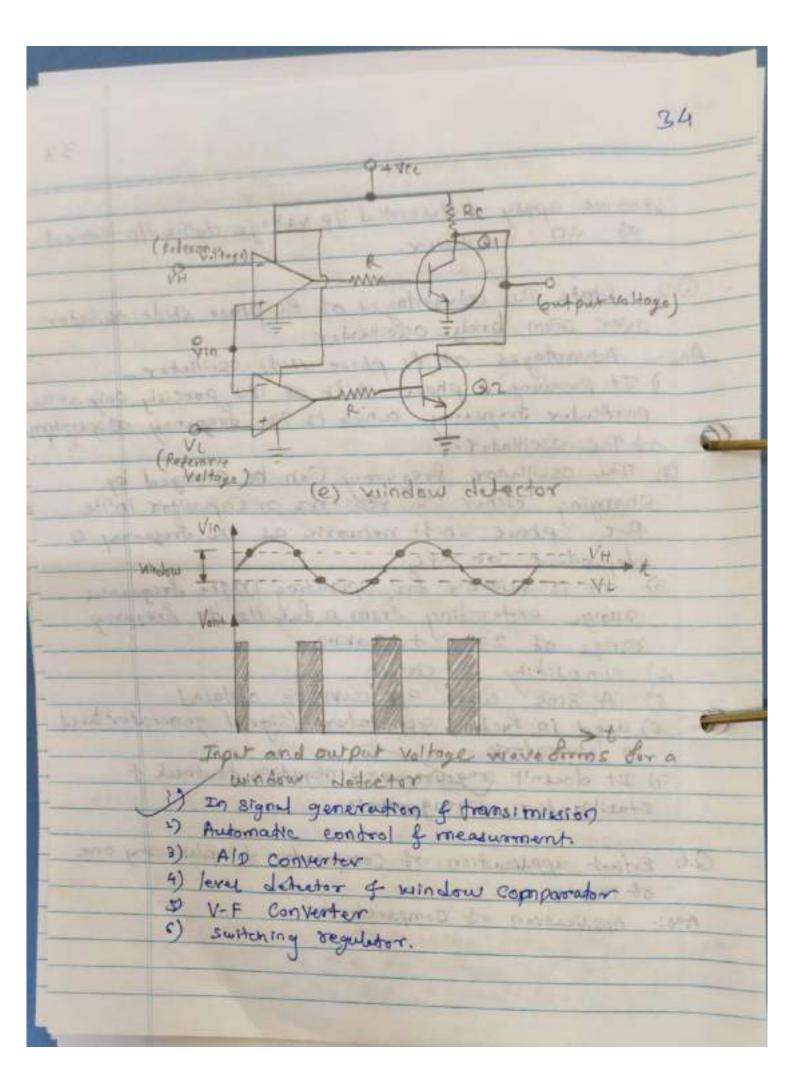
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9	
-	i) The non-inverting amplifier-
	Therefore amounted being OD - Amp shown
	10 fig (c)
	To the non-invention (to be amplified is applied
	to the non-inventing (+) input terminal of op-Amp
	I The Inventory (-) Hp terminal is connected to ground
	Ura Ri
	Iii) The negative Leed back is introduced in This Crocust Via
	Leedback resistance RF which is connected but ofp
	finverting (-) if terminal of op-Amp.
	in) As we are using an Ised op-Amp Ri=00. Therefore
	$I_1 = I_2 = 0$
	V) Therefore Voltage across RI by
	U2 = RI V0
	(RF+RI)
	V1 = U2- V2
	Vi) substituting expression for Uz,
	J: Us = RI = Vo
	(RF+RI)
	AVE - Vo to settle a land
	The state of the s
100	= RI+RF = I+ RE
Horo	rettorante à right of Ribitage Brook Tell
661	f Vo = AFF XUS
	actions to the towards of may develop
100	at Commence of the state of the state of
Prisa	1) A deliveredul astat voltage i ore distance
	L LANGE TO THE CAME OF THE PARTY PAR
304	transport to the training



when we apply differential if p voltage to The if p terminal of an ampliture. Q3. State The advantages of Rephase shift oscillator over arem bridge oscillador Ansi- Advantages of Rephase whilt oscillator.) It produce a phase whilt of 180° precisly only at The particular frequency which is The frequency odoporation of The oscillator. (The oscillator frequency Can be changed by changing either The resistors or Capacitor in The R-c phase shift network as The frequency is dependent on R&C 3) It is suitable for operating in the Longuence range extending from a face Hz to frequery range of 20Hz to 20KHZ 4) simplicity of circuit 5) A sine wate of can be optained 6) wed in faction generators (signal generator used in laboratoric 7) It doesn't pregative any negative feedback of Stabilization arrengements.

Q.4 Extent application of comparator of explain any one of Thum.

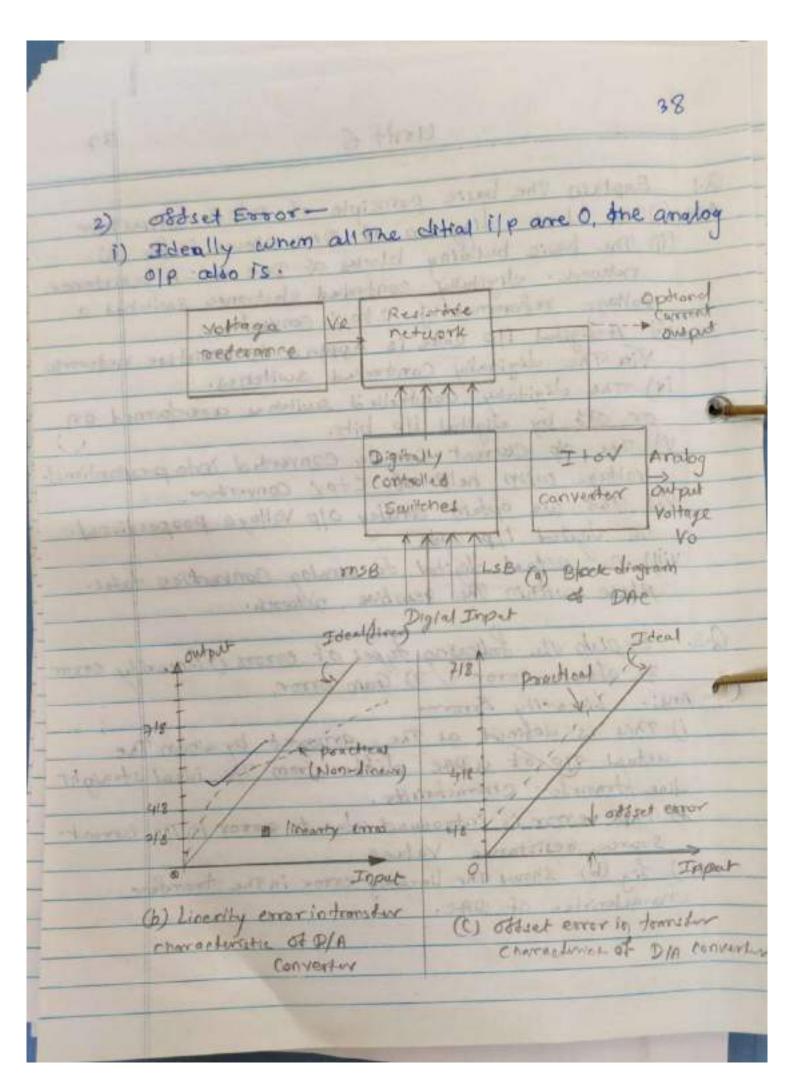
Ans: Application of Comparators



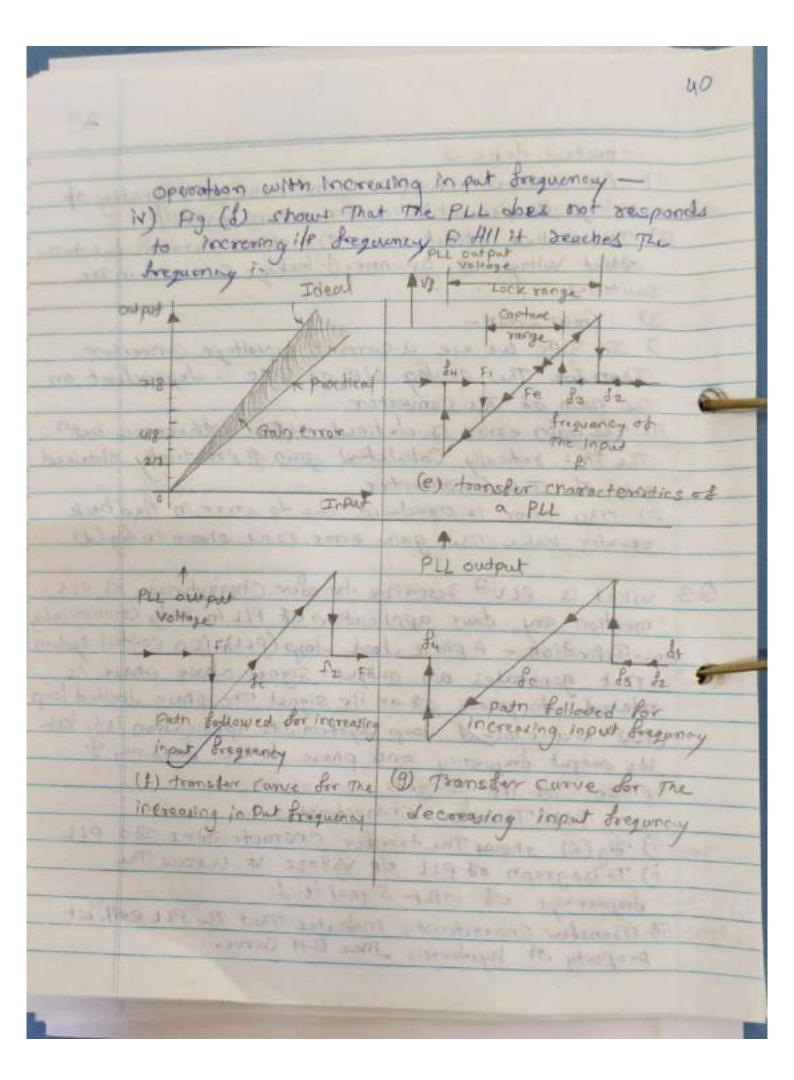
Window Comparator i) The window detector Circuit using two comparadors is shown in fig (e). ii) The window detector crow't is used for detecting cultethur an conknown voltage Vin falls centrin a specified voltage band called window. 1"i) VH & Ve are tow reference Voltage with VH >HL of Vin 15 The input The voltage. iv) If Vin is but two reference voltage ie. VL (Vin KHH Then The dip of both companyons will be dow. Y) collector voltage i.e. of voltage will be equal to vec. .. Vo = + Ver : For VL < Vig < UM. Vi) This will turn off trassister Q1 but saturated transister 192 of The of Voltage will be Vet i.e. low. : Vo = Vec = low: For Vin LVL Vii) If Vin > VH, Then of of comparator, will be high githat of comparator 2 will be low. WIN) Transistor Q1 will saturate & Q1 will remain off the op voltage will Voe 1.e. Low. .. Vo = Voe = low : For Vin > VH 1x) Concusion - A fligh Voltage Indicator That The if P voltage is when evening The cuindow where as a you of voltage indicator that 1/P voltage Is out window. x) The ilp voltage waveform for a comobow detector are as shown in Fig (8) Congressi

unit 6

a: Explain The barre principle of D to A convertient Ars: (i) The block Liggram of DAC shown in fig (9) (1) The basic building blocks of DAR are - A resistance notwork. Ligitally controlled electronic societies a voltage reference of ctov convertur. iii) Adigital 1/p code is applied to resistive network Yia The digitally controlled switches. ir) The digitaly controlled switch a are-torned on or off by Lightal ilp bits. V) The olp Converted into propositional. Yoltage with help of ctor convention Vi) This we optain analog of Voltage propostional. to digital 1/p code. vii) The actual digital to analog convertion takes. place within The resistine network. Q.2 Explain the following types of errors is linearity coror 2) offset error 3 Gain error. Ary: - Linearity Error 1) This is defined at The amount by which The actual gip of a DAC diffe from The ideal straight line transfer characteristics. ii) This error is introduced due to error in The current Source restrance Values iii) Lig (b) shows the linewity error in the transfer onwaytenship of DAC.



Expected to be O (i) As shown in fry (c) same non-zero gralog of veltage is present even for a zero digitalife (ii) This called oddert error The oddset error is due do The oddset voltage of OP-AMP. I teaking cuments in The Switenes Gain Error -D In DAC we are a current to voltage converter. Therefore The analog OIP of DAC is dependent on The gain of This Converter. in The gain error is defined as The disterence bet? The thee retrically Calculated gain of practically obtained gain of I to V converter (1) This error is produced due to error in feed back resider Value The gain error 13 as shown in dig (d) Q3 what is PLL9 Describe transfer Characterritie of PLL mendion any down application of PLL in radio communication Ans-Definition - A phase dock doop (PLU) is a control system that generates an output signal whose phase is related to phase of an 11p signal The phase locked loop (PLU Is a closed loop system Its application is to lock Ids output frequency and phase to the frequency & phase of ilp strgal. PLL Trander Characteristics. i) for (c) shows The transfer Characteristics of a PLL ii) It is a graph of PLL of P Votage VE Us out The frequencys of input signative for iii) Transfur Characteristic indicates That The PLL exilibit property of hysteresis like BH Curve.



Y) This frequency is called as the sower edge of Capture range. Vi) for increasing i/p frequency above &, The PLL Jets docked to The input frequency. vii) when fi > fz i.e. The aupper edge of The lock range , The PLL looses lock , output Voltage Vo reduce to 0 & vco frequency will return to fc. Viii) Thus The path followed for increasing input frequency is from fito fix of Then de as shown in big (b) Operation with decreasing input frequencyi) The path followed by The output Voltage with The ilp frequency decreasing will not be The Barne as That followed wrong The i/p frequency was increasing ii) This is shown in hig (9) iii) If The ilp frequency & is reduced gradually. Then The PLL will recapture The signal frequinary cet for which is called at the upper edge of capture range of tracks it up to by which is The tower edge of Capture range of toach it up to by which is The clower edge of the lock range. iv) Thus from PLL transfer curve of fig (b) we can with That. 83- St = capture range fr-fy = lock range. Application of PLL-O) frequency multiplication division D frequery translation (3) Amplitude de modulation (4) frequency demodulation (5) tracking Filtex

Au:- Block Diagram -

i) The pur circuit is basically used for tracking a particular system

Market Company of the	phase	Ve Low pass		Voltage	putput
400	detector	Bilter	- Amp	Controlled	the same of the sa
L	A	THE DESCRIPTION		oscillator	VoFo

(b) A basic phase locked loop

ii) to It synchronizes its opp with The ipp signed in terms
of frequery & phase.

iii) The State of Synchronization but The input output is called as The Jocked State In The Jocked state The Phase error but input & output is minimum.

iv) If The error tries to creep in . Then The PLL system will work automatically to minimize the phase error.

V) Thus The phase of the output signal is locked to that of the input signal. Henove The name phase clocked loop.

Vi) Block dia of basse pruse locked loop is as vii) As snown in this block dia diagram The phase locked loop consists of:

43 A phase detector of or phase comparator A Low pass filter An error amplifier 4) A votage controlled oscillator (Vco) Transfer characteristicsi) Ing (e) shows The transfer characteristics of PLL. ii) It is a graph of PLL output Voltage VF (Plotted on The Y-axis) Versus The frequency of The infect Signal i.e. f: (Plotted on X-axis) 11") The fransfur characteristics indicates That The PLL. em exhibits The property of hysteresis like BH Curve.

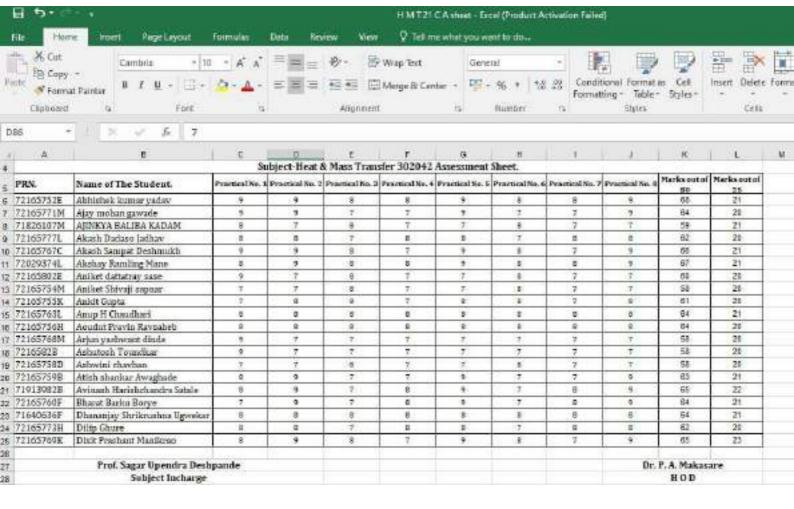
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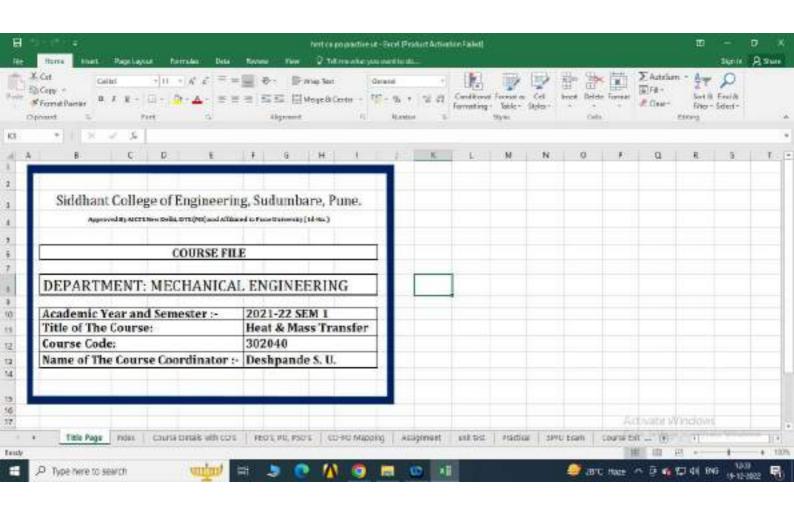
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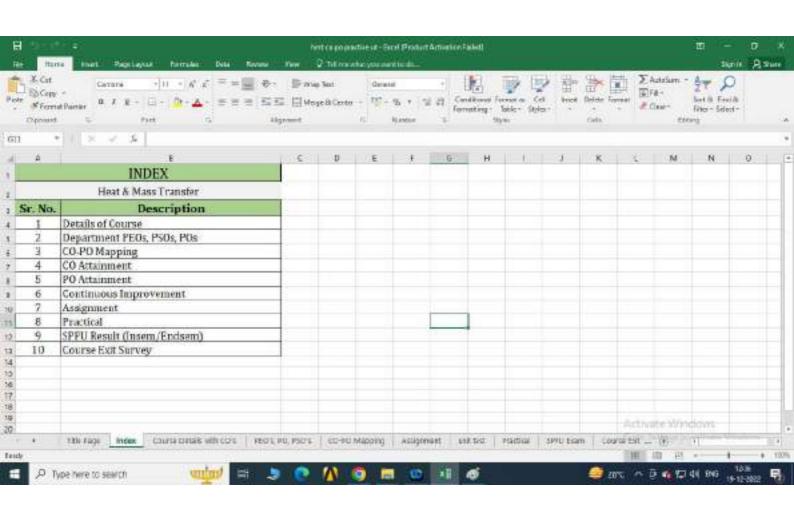
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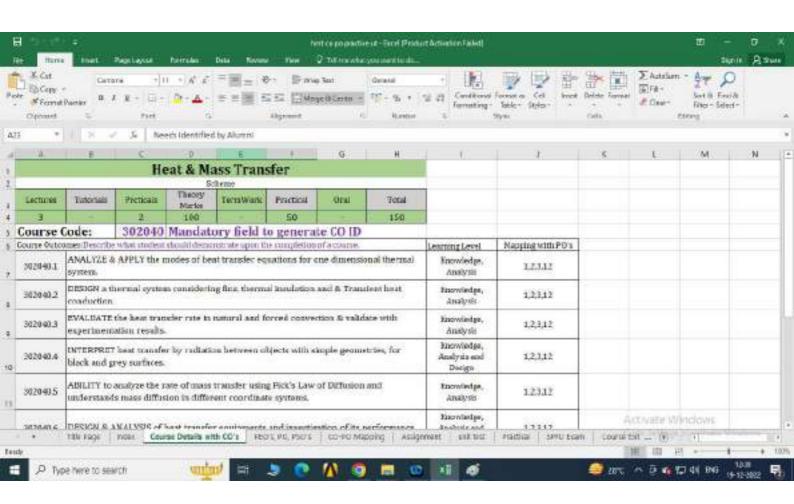
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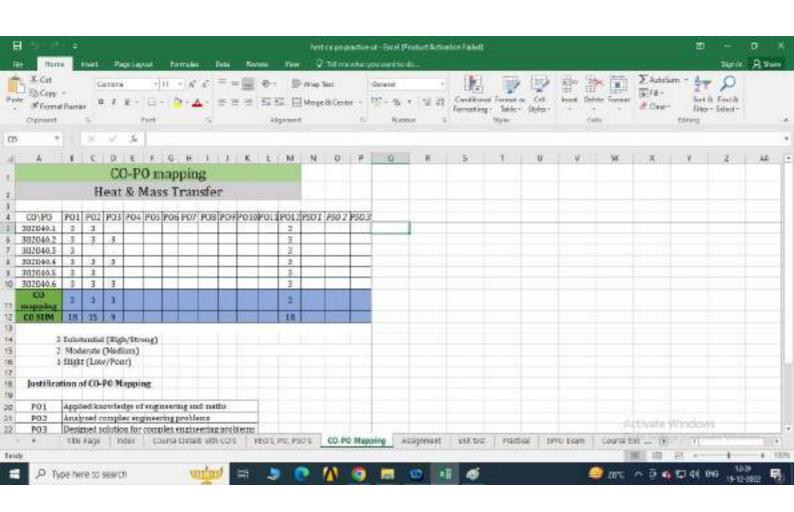
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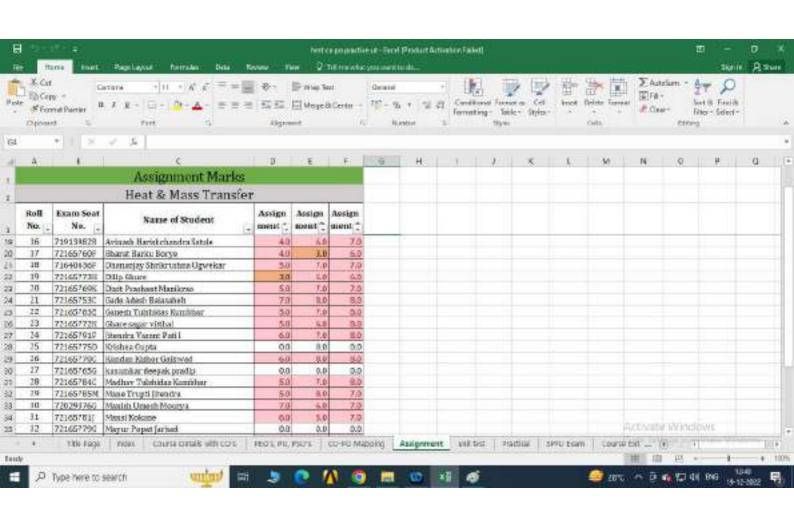


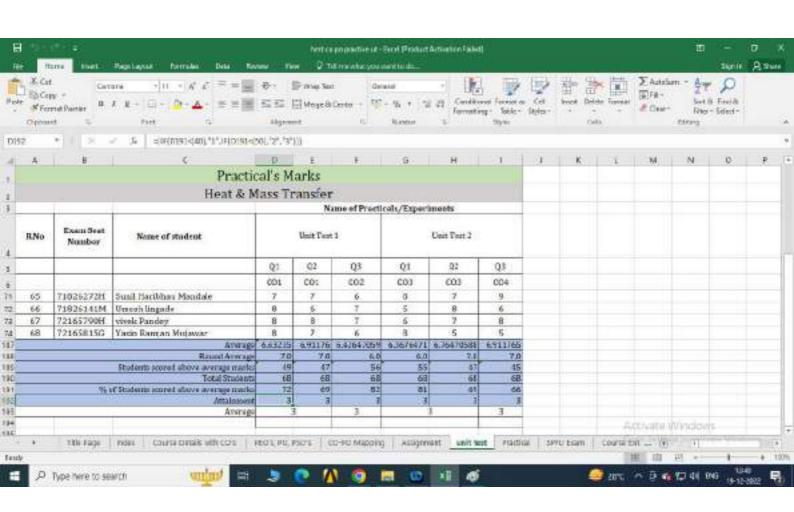


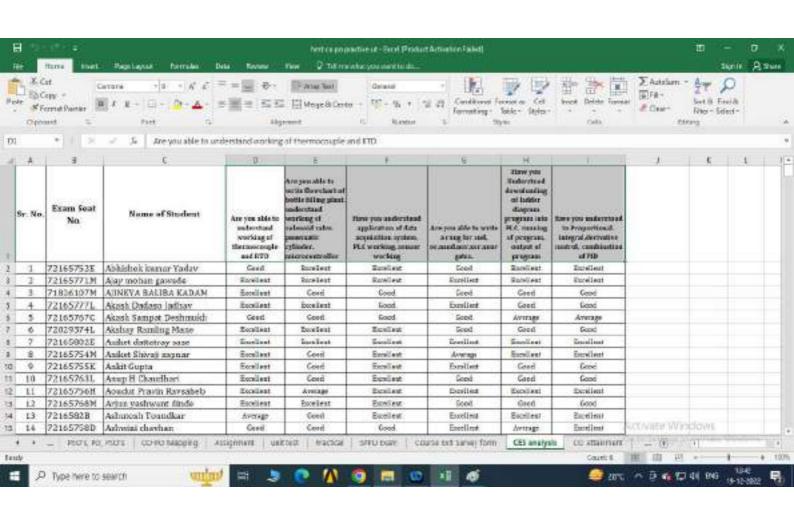


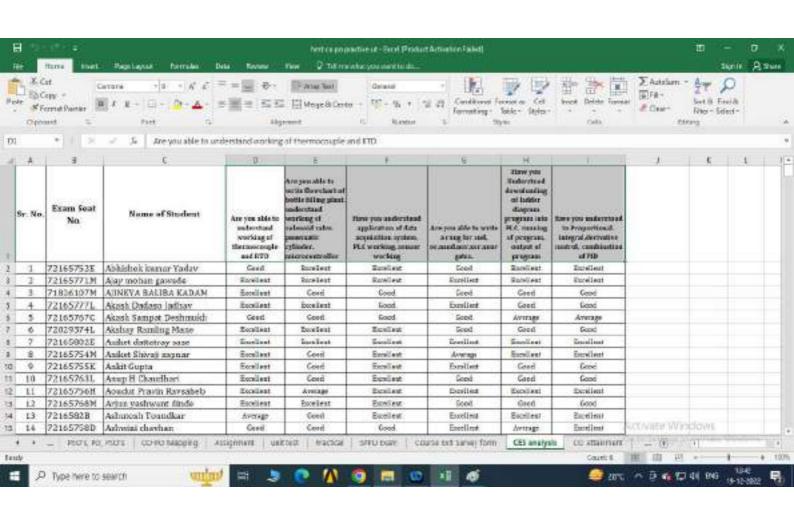


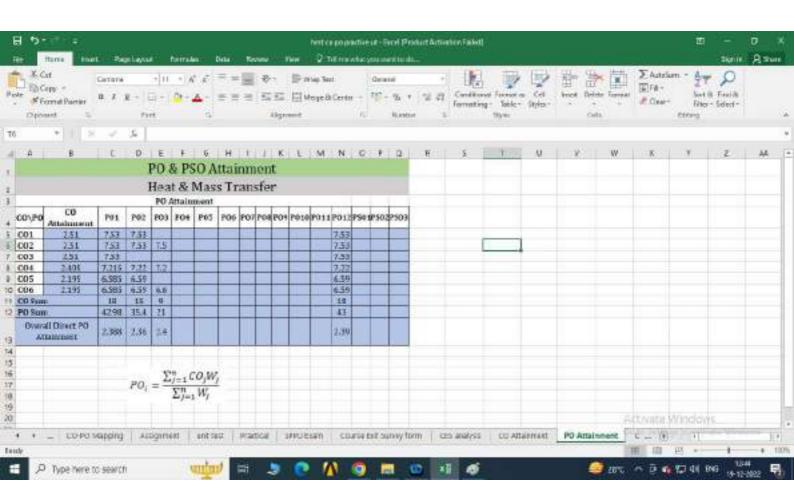


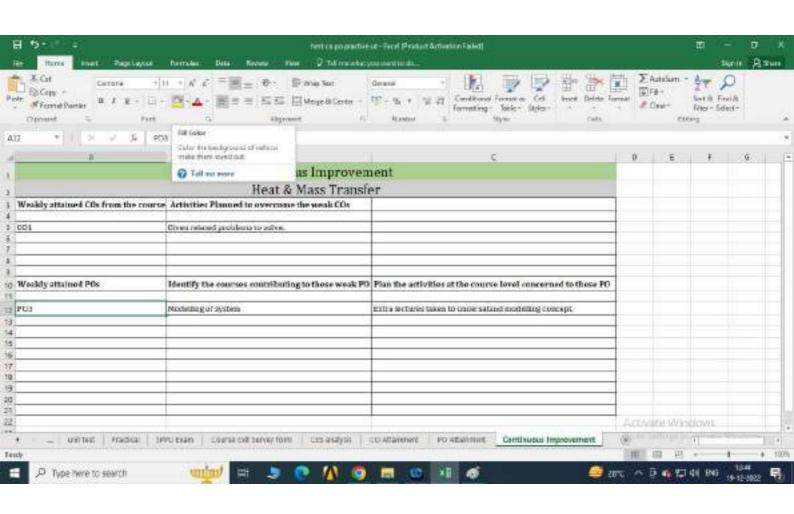












C. A. Y. M. E. Trust's





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Faculty Performance Appraisal System July 1, 20 / to June 30, 20

(Attached Additional Sheet, if required)

Name	:
Designation	:
Deptt.	:

I. INSTRUCTIONAL ELEMENT

(a) Teaching Engagement

	I Se	mester			Students' Response					
	Course No. & Title	No. of Students	Week!	ly Γ P	Faculty Score (out of 5)	Course Score* (out of 5)				
U.G.										
P.G. (including Pre-Ph.D. course)										

	II Se	mester			Students' Response				
	Course No. & Title	No. of Students	Weekly L T	P	Faculty Score (out of 5)	Course Score* (out of 5)			
U.G.									
P.G. (including Pre-Ph.D. course)									

^{*} For Record only.



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Particulars to be given below, in respect of any courses above, which is taken for part of the semester:

Innovation in teaching, if any.		

(b) Project and Thesis (Dissertation) Supervision: BArch/BTech, MArch/MURP/MTech/MSc/MPhil

Level	Title of Project/Thesis	Names of Students	Name of other supervisor (if any)	Remarks*
B.Tech/ M.Sc.				
M.Phil. or M.Tech. or Equivalent				

^{*}Mention if industry or hardware related

(c) Other Instructional Tasks

(such as development of lab/course, Instructional software, Education technology packages (including ETV films, Summer & modular courses, Practical supervision).

Note: Information from Columns II and IV may be used for compilation of Annual Report.



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II. ACADEMIC RESEARCH AND PUBLICATION ELEMENT:

(a) Ph.D. Research Supervision

S.No.	Name of Student	Reg. Year and status (FT/PT)	Thesis Title	Other supervisor (s) (if any), name & department	Completed/ Ongoing

(b)	Refereed Journal Papers (Published during the report period)
	Authors' names (sequence as in paper), Title of paper, Name of Journal, Vol. No. (Year), Page nos
	1.

(c) Refereed Conference Research Papers (Published ones during the report period).

Information to be given in the order as below:

Authors' names (sequence as in paper), Title of paper, Name of Conference, Place, Year, Page nos.

1.

2.

3.

4.

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2.

C. A. Y. M. E. Trust's SIDDHANT COLLEGE OF ENGINEERING.

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(d)	Books, Monographs,	Lab or Design Manuals -	Authored/ Edited
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(Excluding Editing of Conf./ Seminar/ Workshop Proceedings)
Authors names (same order as in publication), Title, Publisher, Vol. No. (Year), Page nos.

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3.

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(e) Technical Reports (External & Internal)

S.No.	Title of Report	Particulars (Sponsored R&D/ Consultancy/ Status Reports etc.	Authors (same order as in publication)	Remarks (External/ Internal report)



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III. SPONSORED R&D, CONSULTANCY & EXTENSION ELEMENT:

(a) Sponsored Research Projects

S.No.	Title of Project	Funding Agency	Financial Outlay	Name of P.I. and other investigators	Status Started or completed or in progress

(b) Consultancy Projects:

S No.	Title of Project	Funding Agency	Financial Outlay	Year of start & total period	Name of P.I. and other investigators	Status Started or completed or in progress

(c) Products/ Processes Development and Technology Transfer /Patents:

(Give particulars with names of group members involved)



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(d) Continuing Education/QIP Short Term Lectures/ Special Lectures:

(u)	Continuing Education/Q11 Short 1		
S No.	Title of Lecture/ Lecture Series	Date, Place and Programme where lectures delivered	Other relevant information
(e)			
IV.	OTHER ACADEMIC ACTIVITIES: Awards/ distinctions/ honours/ member	ership of National Committees	
(b)	Membership of Professional Societies		
(c)	Organisation of Courses/ Conferences Name of the Conf./Seminar/Course		ites
(d)	Visit to outside Institute/ Organisation Instt./Organisation visited		ites of visit

(e) Participation in Seminar/ Symposium/' Workshop etc



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Name of the Conf./Seminar/ Sym./Workshop Place & Sponsored by

Dates

(f) Participation in Short Term Courses *Name of the Courses*

Place & Sponsored by

Dates

- V. (a) OTHER WORK (not included in the form above)
- VI. MANAGEMENT & INSTITUTIONAL DEVELOPMENT ELEMENTS: (incharge of laboratory/ facility/ group, chairmanship and memberships of committees, involvement in student services, Institute community and administrative assignments, J.E.E., etc.)
- a) Dept./ Centre's Level:
- b) Institute Level:
- VII. SELF APPRAISAL

(Comments on the work including particulars of circumstances for not being able to undertake activities in some elements)

VIII. COMMENTS/ SUGGESTIONS FOR FUTURE WORK

(Including difficulties faced, if any, and suggestions for improvement, training, infrastructure etc. for professional growth and for achievement of excellence)



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E-mail:engineeringprincipal@gmail.com

IX. SEPARATE SUMMARY OF WORK IN OTHER DEPT./ CENTRE (applicable only to joint faculty and the faculty in IIC of similar Centres).



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Website: - www.siddhantcoe.edu.in E-mail:engineeringprincipal@gmail.com

X.	FORWARDING, APPRAISAL & FOLLOW-UP	
A)	Forwarded by Head of Dept./ Centre: (with comments, if necessary, about the information given)	
		(Signature of H.O.D. with date)
	(Counter Signature of Faculty Member) with date	
B)	Comments of Appraisal Committee*	
Signatuı	re with date	
* To be	communicated to the faculty member	
C)	Follow-up Action:	

Principal



Summary Sheet for Faculty Performance	ce Appraisal for the Academic Session	
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Name	:	_						
Desig	nation :	_						
Deptt	./Centre :	_						
Table		ee						
Sr. No.	Factor of Appraisal	Factor Weightage		Ra	ating Scale			Factor Weights
110.			5	4	3	2	1	score
			High	Above Average	Average	Below Average	Low	
1.	Teaching (UG/PG/Pre-Ph.D.) minor Project, Independent study. Lab. Development, Preparation of Learning Resource Material etc.	0.40		, , , , , , , , , , , , , , , , , , ,				
2.	Academic Research (Publications in Jour/Conf. Ph.D./MS(R)/M.Tech/M.Sc./ MBA/ M.Des./ B.Tech. Project guidance)	0.30						
3.	Sponsored Research/Consultancy/ CEP/International Projects etc.	0.15						
4.	Academic Management: Institute/Deptt./ Centre Admin. Responsibilities handled	0.10						
5.	Honours/Awards/Prizes/Patents.	0.05						
			Overall Rat	ting Score (O	n 5-point sca	ıle)		
	ments / Remarks e Committee (if any)							
(Chair	rman) (H	lead of Deptt.)	((Member)		1	(Member)	