Vivekanand Education Society's
Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Mechanism of internal assessment is transparent and robust in terms of frequency and mode

INDEX 2.5.1

DUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY
ACADEMIC CALENDER OF YEAR 2019 - 20 (ODD)

Sr. no.	Activity/ Event	Date
1	Term begins (S.E., T.E., B.E., MCA-II, and MCA-III) on	08/07/2019
	(M.E, FE & MCA-I) on	01/08/2019
2	Class Council Election	10/7/2019
3	Student's Council Election	20/07/2019
4	Meeting of Student's Council	26/7/2019
5	Sphurti (indoor) inauguration	30/07/2019
6	FE Induction Program	01/08/2019 to 10/08/2019
7	First defaulter's List** (SE, TE, BE, MCA-II &MCA-III)	01/08/2019
8	Society Council Interview for (B.E. students)	06/08/2019 to 10/08/2019
9	Subject Group Advisors Meetings	20/08/2019 to 31/08/2019
10	Music Event(Bliss)	27/08/2019
11	Fresher's party (F.E.)	30/08/2019
12	Second defaulter's List** (SE, TE, BE&MCA-II &MCA-III)	31/8/2019
	First defaulter's List** (ME, FE& MCA-I)	
13	Fresher's party (MCA-I)	31/08/2019
14	Mid Semester Break (for SE,TE &BE, MCA-II, MCAIII&FE,ME,MCA1)	02/09/2019 to 07/09/2019
15	SoRT Event	13/09/2019 to 17/09/2019
16	Fire Safety Drill	25/09/2019
17	Praxis ----EDIFICE (INST, ETRX & EXTC) ---- Hackathon (INFT, CMPN & MCA)	27/09/2019 & 28/09/2019
18	VESLit Week	30/09/2019 to 5/10/2019
19	Critical defaulter's List** (SE, TE, BE, MCA-II &MCA-III) Second defaulter's List** (ME, FE& MCA-I)	1/10/2019
20	Octaves	7/10/2019 to 10/10/2019
21	**Test Days:**	
	SE, TE, BE, MCA-II&MCA-III	Test 1- **Aug. 16, 19, 20,**
		Test 2- **Oct 18, 19, 21&22**
	FE, MCA-1, ME & first test for Second Year Direct admission (Diploma Students)	Test 1- **Sept 21,23,24&25**
		Test 2- **Nov 7, 8 & 9&11**
	Internal ATKT tests	**Sept 11,12,13,&14**
22	World Students Day	12/10/2019
23	Last Instructional Day (SE, TE, BE & MCA- II, MCA-III	17/10 /2019
24	Critical Defaulter's List** (ME, FE& MCA-I)	01/11/2019
25	Last Instructional Day (ME, FE &MCA-I)	6/11/2019
26	**Submissions & mock orals**	
	(SE, TE, BE, MCA-II&MCA-III)	23/10/2019 to 26/10/2019
	M.E, F.E& MCA-I	12/11/2019 to 16/11/2019
27	**Conduction of Oral and Practical Exams:**	
	(S.E, T.E., B.E.)	30/10/2019 to 11/11/2019
	MCA-II &MCA-III	30/10/2019 to 11/11/2019
	F.E -I	18/11/2019 to 27/11/2019
	MCA-I	18/11/2019 to 27 /11/2019
	M.E	18/11/2019 to 27/11/2019
28	**Commencement of all Theory Exams:**	
	SE,TE,BE(SEM III,V,VII) and FE(SEM I ATKT)	14/11/2019 to 02/12/ 2019
	FE,SE,TE,BE(SEM II,IV,VI,VIII) and ME(SEM II)	03/12/2019 to 19/12/2019
	F.E. (SEM I) (Rev 2019 syllabus)Regular, M.E SEM I MCA*	03/12/2019 to16/12/2019
29	**Term**	
	SE, TE, BE	08/07/2019 to 26/10/2019
	MCA-II& MCA-III	08/07/2019 to 26/10/2019
	FE	01/08/2019 to 16/11/2019
	ME, MCA-I	01/08/2019 to 16/11/2019
30	**Commencement New Term**	06/01/2020

* Exam dates awaited from MU

**Attendance Committee Meetings (For SE, TE, BE MCA-II &MCA-III) ---first week of August, September and October.
For (ME, FE& MCA –I) ---- first week of September, October and November

Smita Jangale 1.8.19
(Academic Co-ordinator)

V.E.S. INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-74

	EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY ACADEMIC CALENDER OF YEAR 2019 - 20 (EVEN)	
Sr. no.	**Activity/ Event**	**Date**
1	Term begins(SE,TE,BE,MCA-II & MCA-III)	06/01/2020
2	(M.E, FE & MCA-I) on	06/01/2020
3	Spurti (outdoors)	10/01/2020 to 17/02/2020
4	Illusion	10/01/2010 to 13/01/2020
5	Window period for Society Activities	20/01/2020 to 16/03/2020
6	Atttendance Report 1	01/02/2020
7	Satyanarayan Puja	01/02/2020
8	Photo Session	05/02/2020
9	SORT Event	07/02/2020
10	Internal Assessment Test 1(*Completion of Evaluation is 2/03/2020)	17th,18th,20th &22nd Feb 2020
11	UTSAV Auditions	18/02/2020 to 11/03/2020
12	Blood Donation	22/02/2020
13	Group Advisors' Meetings for Lesson/Lab Plan Audit	25/02/2020 to 02/03/2020
14	Internal ATKT Tests	25/02/2020 to 02/03/2020
15	Marathi RajyaBhasha Divas	27/02/2020
16	Atttendance Report 2	02/03/2020
17	SoRT Event	06/03/2020
18	SoRT (NGO Visit)	11/03/2020
19	UTSAV 2020	13/03/2020 & 14/03/2020
20	Technology Day	20/03/2020
21	E-cell Event (Internship Mela)	23/03/2020 to 24/03/2020)
22	Society Technical Lecture Series	26/03/2020 & 27/03/2020
23	Internal Assessment Test 2(Completion of Evaluation of test 2 is 13/04/2020)	30thMarch to 3rd April 2020
24	Attendance Report 3	1/4/2020
25	Society's Prize Distribution	07/04/2020 to 08/04/2020
26	DAB Committee Meetings	7/04/2020 to 11/04/2020
27	Last Instructional Day(FE,SE,TE,BE,ME,MCA-I,MCA-II&MCA-III)	13/04/2020
28	Final Year Farewell(BE)	17/4/2020
29	Final Year Farewell(MCA))	18/4/2020
	Submissions & mock orals	
30	(SE, TE, BE, MCA-II&MCA-III)	15/04/2020 to 18/04/2020
	M.E, F.E& MCA-I	15/04/2020 to 18/04/2020
	Conduction of Oral and Practical Exams:	
31	SE, TE, BE, MCA-II&MCA-III)	20/04/2020 to 30/04/2020
	M.E, F.E& MCA-I	20/04/2020 to 30/04/2020
	Commencement of all Theory Exams:	
32	FE,SE,TE,BE (Sem II,IV,VI,VIII) &M.E(Sem II)	07/05/2020 to 25/05/2020
	SE,TE,BE(Sem III,V, VII) and FE Sem I ATKT	26/05/2020 to 11/06/2020
	Term	
33	SE, TE, BE,MCA-II,MCA-III	06/01/2020 to 18/04/2020
	FE,ME, MCA-I	06/01/2020 to 18/04/2020
34	**Commencement New Term**	6/7/2020
**Attendance Committee Meetings (For SE, TE, BE MCA-II &MCA-III ,ME, FE& MCA –I) :-First week of February, March & April		

10.1.2020

Smita Jangale
(Academic Co-ordinator)

INSTITUTE OF TECHNOLOGY * V.E.S. CHEMBUR, MUMBAI-74

D EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY
ACADEMIC CALENDER OF YEAR 2018-19 (ODD)

Sr. no.	Activity/ Event	Date
1	Term begins(SE,TE,BE,MCA-II& MCA-III)	07/01/2019
	(M.E, FE & MCA-I) on	07/01/2019
2	The Big Stage Music Event	09/01/2019 to 11/01/2019
3	Spurti (outdoors)	14/01/2019 to 16/02/2019
4	Book Swap(E-Cell Event)	14/01/2019 to 19/01/2019
5	LBS Championship(Second Round of Elimination)	19/01/2019
6	Window period for Society Activities	21/01/2019 to 16/03/2019
7	Atttendance Report 1	01/02/2019
8	Satyanarayan Puja	02/02/2019
9	Photo Session	06/02/2019
10	SORT Event	07/02/2019
11	UTSAV Auditions	19/02/2019 to 15/03/2019
12	Group Advisors' Meetings for Lesson/Lab Plan Audit	25/02/2019 to 02/03/2019
13	LBS Championship(Third Round of Elimination)	16/02/2019
	Internal Assessment Test 1(*Completion of Evaluation is 2/03/2019)	18th,20th &21st Feb 2019
14	Blood Donation	22/02/2019
	Internal ATKT Tests	25/02/2019 to 02/03/2019
15	Marathi Bhasha Divas	27/02/2019
16	Atttendance Report 2	01/03/2019
17	SoRT Event	06/03/2019
18	SoRT (NGO Visit)	08/03/2019
	UTSAV Days	11/03/2019 to 16/03/2019
	UTSAV' 2019	15/03/2019 & 16/03/2019
	E-Cell Event	18/03/2019 to 20/03/2019
20	Technology Day	20/03/2019
21	LBS Championship Prize distribution	20/03/2019
22	Society Technical Lecture Series	26/03/2019 & 27/03/2019
	Society 's Prize Distribution	25/03/2019 to 31/03/2019
23	DAB Committee Meetings	25/03/2019 to 31/03/2019
	Attendance Report 3	01/04/2019
	Internal Assessment Test 2(Completion of Evaluation of test 2 is 16/04/2019)	8th to 11th April 2019
	Final Year Farewell	12/04/2019
24	Last Instructional Day(FE,SE,TE,BE,ME,MCA-1,MCA-II&MCA-III)	20/04/2019
25	**Submissions & mock orals**	
	(SE, TE, BE, MCA-II&MCA-III)	15/04/2019 to 20/04/2019
	M.E, F.E& MCA-I	15/04/2019 to 20/04/2019
26	**Conduction of Oral and Practical Exams:**	
	SE, TE, BE, MCA-II&MCA-III)	22/04/2019 to 02/05/2019
	M.E, F.E& MCA-I	22/04/2019 to 02/05/2019
27	**Commencement of all Theory Exams:**	
	All Higher Semester + F.E. (SEM II)	07/05/2019 onwards
	F.E. (SEM I) Regular, M.E, MCA-1	07/05/2019 onwards
28	**Term**	
	SE, TE, BE,MCA-I,MCA-II	07/01/2019 to 20/04/2019
	FE,ME, MCA-I	07/01/2019 to 20/04/2019
29	**Commencement New Term**	08/07/2019(Tentative)
**Attendance Committee Meetings (For SE, TE, BE MCA-II &MCA-III ,ME, FE& MCA –I) :-First week of February, March & April		

25.7.18

Smita Jangale

(Academic Co-ordinator)

V.E.S. INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-74

ION SOCIETY'S INSTITUTE OF TECHNOLOGY
ACADEMIC CALENDER OF YEAR 2018-19 (EVEN)

Sr. no.	Activity/ Event	Date
1	Term begins(SE,TE,BE,MCA-II& MCA-III)	07/01/2019
2	(M.E, FE & MCA-I) on	07/01/2019
3	The Big Stage Music Event	09/01/2019 to 11/01/2019
4	Spurti (outdoors)	14/01/2019 to 16/02/2019
5	LBS Championship(Second Round of Elimination)	19/01/2019
6	Window period for Society Activities	21/01/2019 to 16/03/2019
7	Atttendance Report 1	01/02/2019
8	Satyanarayan Puja	02/02/2019
9	Photo Session	05/02/2019
10	SORT Event	07/02/2019
11	UTSAV Auditions	19/02/2019 to 15/03/2019
12	Group Advisors' Meetings for Lesson/Lab Plan Audit	25/02/2019 to 02/03/2019
13	LBS Championship(Third Round of Elimination)	16/02/2019
14	Internal Assessment Test 1(*Completion of Evaluation is 2/03/2019)	18th,20th &21st Feb 2019
15	Blood Donation	22/02/2019
16	Internal ATKT Tests	25/02/2019 to 02/03/2019
17	Edifice	to be announced
18	Marathi Bhasha Divas	27/02/2019
19	Atttendance Report 2	01/03/2019
20	SoRT Event	06/03/2019
21	SoRT (NGO Visit)	08/03/2019
22	UTSAV' 2019	15/03/2019 & 16/03/2019
23	E-Cell Event (E-Summit)	18/03/2019 to 20/03/2019
24	Technology Day	20/03/2019
25	LBS Championship Prize distribution	20/03/2019
26	E-cell Event (Internship Mela)	22/03/2019 to 23/03/2019)
27	Society Technical Lecture Series	26/03/2019 & 27/03/2019
28	Society's Prize Distribution	28/03/2019 to 02/04/2019
29	DAB Committee Meetings	25/03/2019 to 31/03/2019
30	Attendance Report 3	01/04/2019
31	Internal Assessment Test 2(Completion of Evaluation of test 2 is 16/04/2019)	8th to 11th April 2019
32	Final Year Farewell(BE)	15/4/2019
33	Final Year Farewell(MCA))	20/4/2019
34	Last Instructional Day(FE,SE,TE,BE,ME,MCA-I,MCA-II&MCA-III)	20/04/2019
	Submissions & mock orals	
35	(SE, TE, BE, MCA-II&MCA-III)	15/04/2019 to 20/04/2019
	M.E, F.E& MCA-I	15/04/2019 to 20/04/2019
	Conduction of Oral and Practical Exams:	
36	SE, TE, BE, MCA-II&MCA-III)	22/04/2019 to 02/05/2019
	M.E, F.E& MCA-I	22/04/2019 to 02/05/2019
	Commencement of all Theory Exams:	
37	All Higher Semester + F.E. (SEM II)	07/05/2019 onwards
	F.E. (SEM I) Regular, M.E, MCA-I	07/05/2019 onwards
	Term	
38	SE, TE, BE,MCA-II,MCA-III	07/01/2019 to 20/04/2019
	FE,ME, MCA-I	07/01/2019 to 20/04/2019
39	**Commencement New Term**	08/07/2019(Tentative)
**Attendance Committee Meetings (For SE, TE, BE MCA-II &MCA-III ,ME, FE& MCA –I) :-First week of February, March & April		

** Health Lecture series by Doctors are scheduled for Staff every Saturday from 9th Feb 2019 onwards

31/1/2019

Smita Jangale
(Academic Co-ordinator)

V.E.S. INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-74

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY
ACADEMIC CALENDER OF YEAR 2017-18 (ODD)

Sr. no.	Activity/ Event	Date
1	Term begins (S.E., T.E., B.E., MCA-II, and MCA-III) on	10/07/2017
2	(M.E, FE & MCA-I)	01/08/2017
3	Class Council Election	12/07/2017 to 17/07/2017
4	First defaulter's List** (SE, TE, BE, MCA-II &MCA-III)	01/08/2017
5	Student Council Election	02/08/2017
	Meeting of Student Council	05/08/2017
6	Society Council Interview for (B.E. students)	05/08/2017 to 09/08/2017
7	Music Event	24/08/2017
8	SORT Event	11/09/2017 to 16/09/2017
9	Subject Group Advisors Meetings	16/08/2017 to 23/08/2017
10	Sphurti (indoor) inauguration	22/08/2017
11	Fresher's party (F.E.)	23/08/2017
12	Mid Semester Break (for SE, TE &BE, MCA-II, MCAIII)	25/08/2017 to 29/08/2017
13	Second defaulter's List** (SE, TE, BE&MCA-II &MCA-III)	01/09/2017
	First defaulter's List** (ME, FE& MCA-I)	
14	Fresher's party (MCA-I)	16/09/2017
15	Praxis ----EDIFICE (INST, ETRX & EXTC)	
	--- Hackathon (INFT, CMPN & MCA)	22/09/2017 to 23/09/2017
16	Octaves	27/09/2017, 28/09/2017 & 29/09/2017
17	Critical defaulter's List** (SE, TE, BE, MCA-II &MCA-III)	03/10/2017
	Second defaulter's List** (ME, FE& MCA-I)	
18	Test Days: SE, TE, BE, MCA-II&MCA-III Test 1	16/08/2021 to 21/08/2021
	Completion of Evaluation of Test 1 is	06/09/2017
	Test 2	OCT. 3, 4, 5, 6 &7
	(Completion of Evaluation of Test 2 papers is	Oct 2018
	FE, MCA-1, ME Test 1	Sept 7,8,9,11,12
	(Completion of Evaluation of Test 1 papers is	Sept 27
	Test 2	Nov 6,7,8,9 & 10
	(Completion of Evaluation of Test 2 papers	Nov 17
19	World Students day	16/10/2017
20	Last Instructional Day (SE, TE, BE & MCA- II, MCA-III)	23/10/2017
21	Critical Defaulter's List** (ME, FE& MCA-I)	01/11/2017
22	Last Instructional Day (ME, FE &MCA-I)	13/11/2017
23	Submissions & mock orals	
	(SE, TE, BE, MCA-II&MCA-III)	24/10/2017 to 27/10/2017
	M.E, F.E& MCA-I	14/11/2017 to 17/11/201
24	Conduction of Oral and Practical Exams:	
	(S.E, T.E., B.E.)	29/10/2017 to 11/11/2017
	MCA-II &MCA-III (Tentative)	29/10/2017 to 11/11/2017
	F.E.	1 18/11/2017 to 27 /11/2017
	MCA-I (Tentative)	18/11/2017 to 27 /11/2017
	M.E.	18/11/2017 to 27 /11/2017
25	Commencement of all Theory Exams:	
	All Higher Semester + F.E. (SEM II)	21/11/2017 onward
	F.E. (SEM I) Regular, M.E, MCA-I	04/12/2017 onwards
26	Term	
	SE, TE, BE	10/07/2017 to 27/10/2017
	MCA-II& MCA-III	10/07/2017 to 27/10/2017
	FE	01/08/2017 to 17/11/2017
	ME, MCA-I	01/08/2017 to 17/11/2017
27	Commencement of CAP	25/11/2017 onwards
	Commencement New Term	08/01/2018
28	**Attendance Committee Meetings (For SE, TE, BE MCA-II &MCA-III) ---first week of August, September and October.	
	For (ME, FE&MCA –I) ---- first week of September, October and November.	

9/8/2017

Mrs Smita Jangale

(Academic Co-ordinator)

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY
CHEMBUR, MUMBAI-400 074 INDIA

ION SOCIETY'S INSTITUTE OF TECHNOLOGY
ACADEMIC CALENDER OF YEAR 2017-18 (EVEN)

Sr. no.	Activity/ Event	Date
1	Term starts on	08/01/2018
2	Sphurti (Outdoor)	15/01/2018 -20/02/2018
3	Alumni Day	16/12/2017
4	Illusion	10/01/2018 to 13/01/2018
5	Book Swap (E-Cell event)	14/01/2018 to 20/01/2018
6	CII Techconnect	17/01/2018
7	Window period for Society Activities	18/01/2018 to 16/03/2018
8	One Act Play	03/02/2018
9	SoRT	07/02/2018
10	Veslit week	30/01/2018- 03/02/2018
11	Attendance Report 1 * (Attendance Committee Meeting is to be held in the first week of every month)	01/02/2018
12	Meeting of LBS guides with LBS Incharge and Principal/Vice Principal	02/02/2018
13	Photo Session	06/02/2018
14	UTSAV Auditions	20/02/2018 – 16/03/2018
15	TEST 1	
	FE, SE, TE, ME &MCA	12/02/2018 to16/02/18
	BE	14/02/2018 to17/02/2018
16	Group Advisors' meeting for Lesson plan / Lab Plan Audit	12/02/2018 to 17/03/2018
17	Satyanarayan Puja	17/02/2018
18	The Big Stage (Music Event)	21/02/2018 – 22/02/2018
19	Blood Donation	22/02/2018
20	Attendance Report 2	01/03/2018
21	SoRT	03/03/2018
22	ATS Final	06/03/2018
23	Parents Teachers Meet	10/03/2018
24	SoRT (NGO Visit)	16/03/2018
25	Utsav days (Instructional days)	12/03/2018-17/03/2018
26	Technology Day	20/03/2018
27	UTSAV'18, Annual Day and Prize Distribution	21/03/2018 & 22/03/2018
28	E-Cell Event (E Summit)	23/03/2018 to 26-03-2018
29	Society's Technical lecture series	23/03/2018 & 24/03/2018
30	Society's Prize distribution	26/03/2018 to 31/03/2018
31	DAB Committee Meetings	27/03/2018 to 31/03/2018
32	Attendance Report 3	02/04/2018
33	Last Instructional Day	10/04/2018
34	TEST 2	11/04/2018 to 17/04/2018
35	Group Advisors' meeting for Academic audit	11/04/2018 to 17/04/2018
36	Mock Viva & Submissions	18/04/2018 to 21/04/2018
37	Term End	21/04/2018
38	Vacation slot (for staff)	23/04/2018 to 30/06/2018
39	Conduction of oral and practical examination	23/04/2018 to 02/05/2018
40	Commencement of theory exams (FE sem-II & all higher sems of Engg & MCA)	08/05/2018
41	Commencement of theory exam	
	FE (SEM-I) (regular)	08/05/2018
42	Faculty Development Program	02/07/2018 to 7/07/2018 (tentative)
43	Commencement of New Term	09/07/2018

24/1/18
Smita Jangale
(Academic Coordinator)

V.E.S. INSTITUTE OF TECHNOLOGY ★ CHEMBUR, MUMBAI-74

	VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY ACADEMIC CALENDER OF YEAR 2016-17 (ODD)	
Sr. no.	**Activity/ Event**	**Date**
1	Term begins (S.E., T.E., B.E., MCA-II, and MCA-III)	11/07/2016
2	(M.E, FE & MCA-I	01/08/2016
3	Class Council Election	13/07/2016 to 16/07/2016
4	Meeting of student's Council	23/07/2016
5	Society Council Interview for (B.E. students)	27/07/2016
6	First defaulter's List** (SE, TE, BE, MCA-II &MCA-III)	01/08/2016
7	Music Event	04/08/2016
8	SORT Event	12/08/2016
9	Subject Group Advisors Meetings	16/08/2016 to 23/08/2016
10	Sphurti (indoor) inauguration	24/08/2016
11	Fresher's party (F.E.)	26/08/2016
12	Second defaulter's List** (SE, TE, BE&MCA-II &MCA-III)	01/09/2016
13	Fresher's party (MCA-I)	03/09/2016
14	Mid Semester Break	06/09/2016 to 12/09/2016
15	Praxis	22/09/2016 & 23/09/2016
16	Octaves	29/09/2016, 30/09/2016 & 01/10/2016
17	Critical defaulter's List** (SE, TE, BE, MCA-II &MCA-III)	01/10/2019
18	Second defaulter's List** (ME, FE& MCA-I)	
	Test Days: SE, TE, BE, MCA-II&MCA-III Test 1-	Aug. 16, 18, 19, 20
	Test 2-	OCT. 10, 13, 14, 15
	FE, MCA-1, ME Test 1-	Sept 16, 17 &19
	Test 2-	Nov 3, 4, 5&7
19	World Students day (ATS)	15/10/2016
20	Last Instructional Day (SE, TE, BE & MCA- II, MCA-III)	24/10/2016
21	Critical Defaulter's List** (ME, FE& MCA-I)	01/11/2016
22	Last Instructional Day (ME, FE &MCA-I)	25/10/2016 to 28/10/2016
23	Submissions & mock orals (SE, TE, BE, MCA-II&MCA-III)	25/10/2016 to 28/10/2016
24	Conduction of Oral and Practical Exams:	
	MCA-II &MCA-III (Tentative)	29/10/2016 to 12 /11/2016
	F.E -1	20/11/2016 to27 /11/2016
	MCA-I (Tentative)	20/11/2016 to 27 /11/2016
	M.E	20/11/2016 to27 /11/2016
25	Commencement of all Theory Exams:	
	All Higher Semester + F.E. (SEM II)	22 /11/2016 onwards
	F.E. (SEM I) Regular, M.E, MCA-1	03 /12/2016 onwards
	Term	
	SE, TE, BE	11/07/2016 to 28/10/2016
	MCA-II& MCA-III	11/07/2016 to 28/10/2016
	FE	01/08/2016 to 19/11/2016
	ME, MCA-I	01/08/2014 to 19/11/2016
26	Commencement of CAP	25/11/2016 onwards
27	Commencement New Term	04/01/2017
	**Attendance Committee Meetings (For SE, TE, BE MCA-II &MCA-III) ---first week of August, September and October.	
	For (ME, FE& MCA –I) ---- first week of September, October and November.	

18.7.2016

Smita Jangale
(Academic Co-ordinator)

V.E.S. INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-74

EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY
ACADEMIC CALENDER OF YEAR 2016-17 (EVEN)

Sr. no.	Activity/ Event	Date
1	Term starts on	11/01/2017
2	Sphurti (Outdoor)	06/01/2017 -28/02/2017
3	Winter School (for students)	05/01/2017 to 10/01/2017
4	Faculty Development Program (for staff)	04/01/2017 to 10/01/2017
5	Alumni Day	07/01/2017
6	Illusion	11/01/2017 to 14/01/2017
7	Book Swap (E-Cell event)	11/01/2017 to 19/01/2017
8	Meeting of Students Council at 1.00 pm	18/01/2017
9	Satyanarayan Puja ----	
10	Window period for Society Activities	18/01/2017 to 8/02/2017
11	One Act Play	20-01-2017 & 21/01/2017
12	E-Cell Event	23/01/2017
13	SORT	24/01/2017 & 25/01/2017
14	Meeting of LBS guides with LBS Incharge and Principal/Vice Principal	25/01/2017
15	ATS Final	28/01/2017
16	Veslit week	30/01/2017- 03/02/2017
17	Attendance Report 1	01/02/2017
	* (Attendance Committee Meeting is to be held in the first week of every month)	
18	Photo Session	11/02/2017
19	UTSAV Auditions	13/02/2017 – 07/03/2017
20	The Big Stage (Music Event)	15/02/2017 – 17/02/2017
21	Blood Donation	22/02/2017
22	TEST 1	25/02/2017 to 01/03/17
23	Group Advisors' meeting for Lesson plan / Lab Plan Audit	25/02/2017 to 01/03/2017
24	Attendance Report 2	01/03/2017
25	Parents. Teachers Meet	04/03/2017
26	EDIFICE ------	
27	DAB Committee Meetings	27/03/2017 to 31/03/2017
28	UTSAV days	8/03/2017 – 15/03/2017
29	UTSAV'17	16/03/2017 &17/03/2017
30	Annual Day and Prize Distribution	18/03/2017
31	Technology Day	20/03/2017
32	Internship Mela	20/03/2017 – 25/03/2017
33	Society Symposium	27/03/2017-01/04/2017
34	Group Advisors' meeting for Academic audit	13/04/2017 to 18/04/2017
35	Mock Viva & Submissions	19/04/2017 to 22/04/2017
36	Attendance Report 3	01/04/2017
37	Last Instructional Day	12/04/2017
38	TEST 2	13/04/2017 to 18/04/2017
39	Term End	22/04/2017
40	Vacation slot (for staff)	24/04/2017 to 01/07/2017
41	Conduction of oral and practical examination	24/04/2017 to 04/05/2017
42	Commencement of theory exams	11/05/2017
	(FE seem-II & all higher sems of Engg & MCA)	
43	Commencement of theory exam FE (SEM-I) (regular)	11/05/2017
44	Commencement of CAP	15/05/2017
45	Faculty Development Program (for staff)	03/07/2017 to 8/07/2017
46	Commencement of New Term	10/07/2017

17.01.17

Smita Jangale

(Academic Coordinator)

V.E.S. INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-74

V.E.S INSTITUTE OF TECHNOLOGY

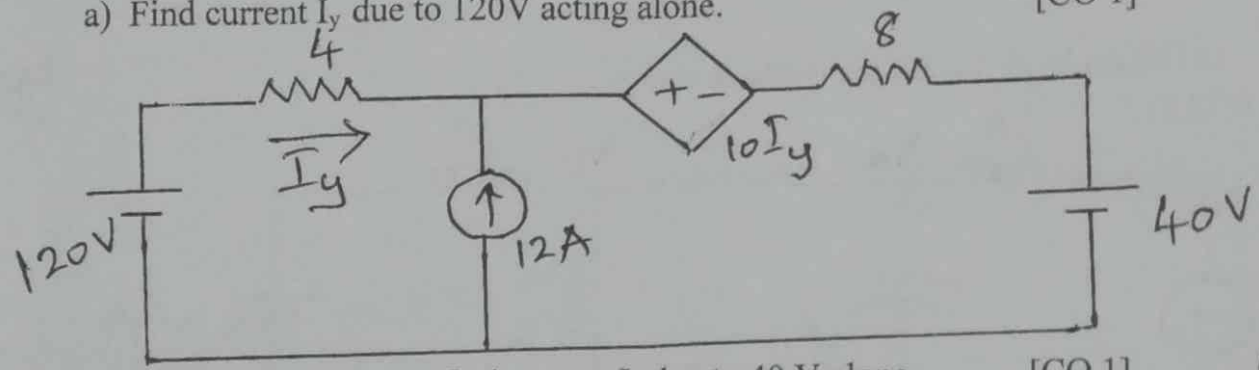
Department of Instrumentation

S.E/SEM III/D8/2019-20/ENM/JR

TEST I Date:16/08/2019

I Answer any FIVE : (5*2=10)

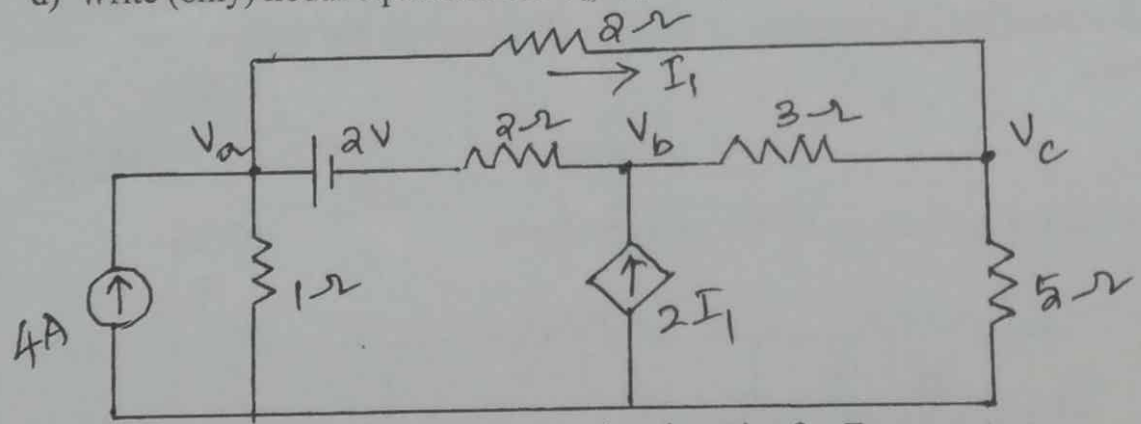
a) Find current I_y due to 120V acting alone. [CO 1] (BL3)



b) For the above circuit find current I_y due to 40 V alone. [CO 1] (BL 3)

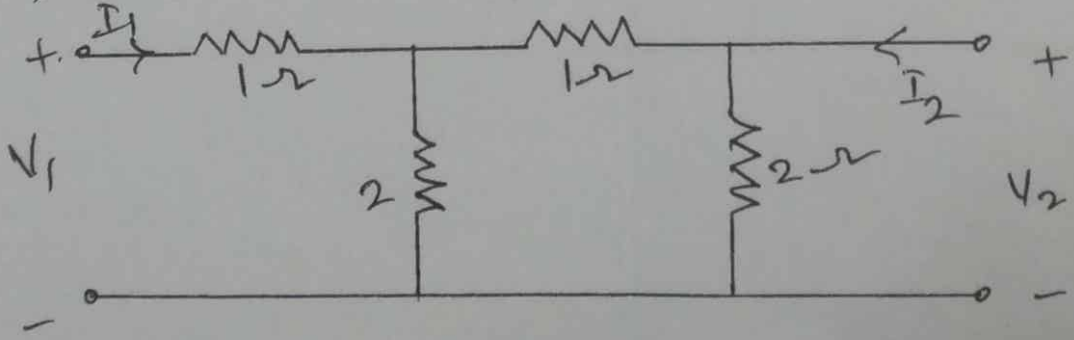
c) For the same circuit find current I_y due to 12 A alone. [CO 1] (BL 3)

d) Write (only) nodal equations for V_a, V_b & V_c . [CO 1] (BL 3)



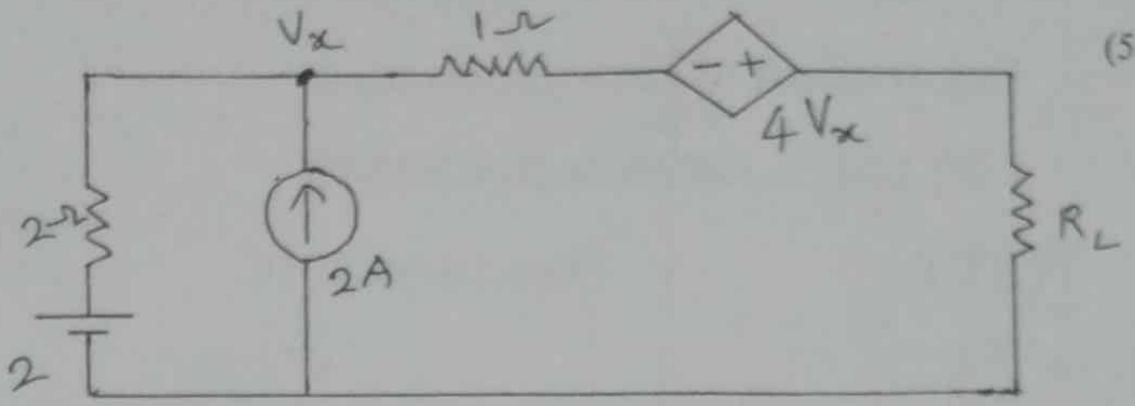
e) State the condition for symmetry and reciprocity for Z parameters. (BL 1)
[CO 3]

f) Find Z_{11} and Z_{12} for the given circuit. [CO 3] (BL 3)



II a) Obtain Thevenin's equivalent network for the given circuit: [CO 1] (BL3)

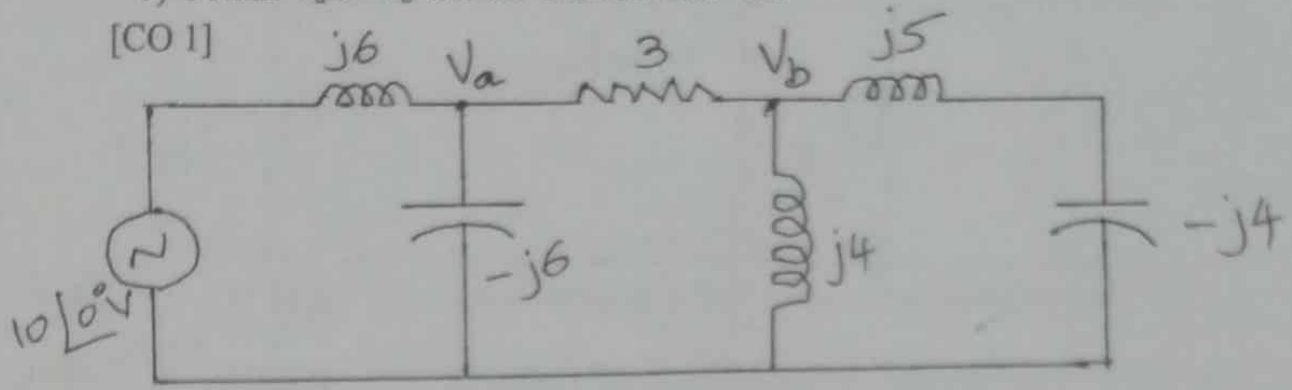
(5*1=5)



(OR)

b) Obtain V_a & V_b for the network shown : (BL 3)

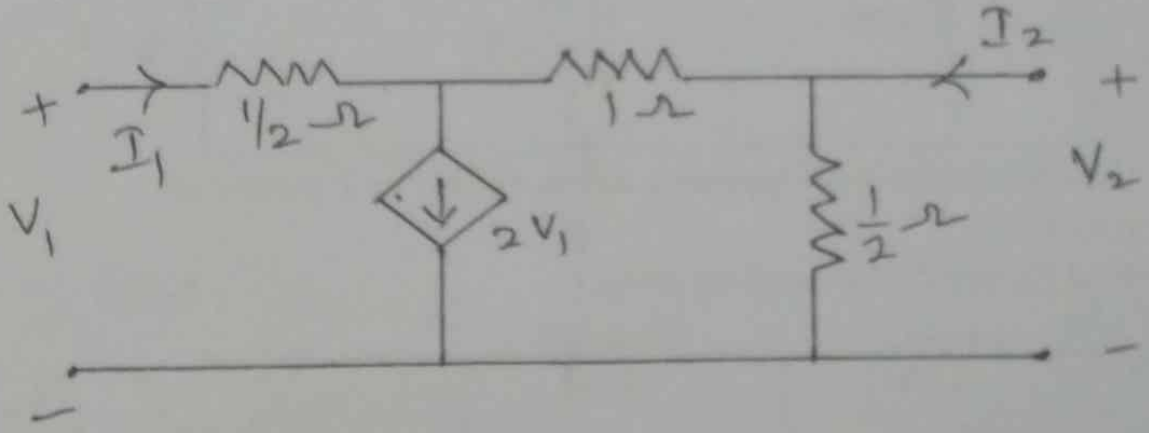
[CO 1]



III a) Derive the conditions for measuring unknown inductance of the bridge which is used for measurement of medium Q (1-10) coil and explain with diagram. [CO6] (BL 2)

(OR) (5*1 =5)

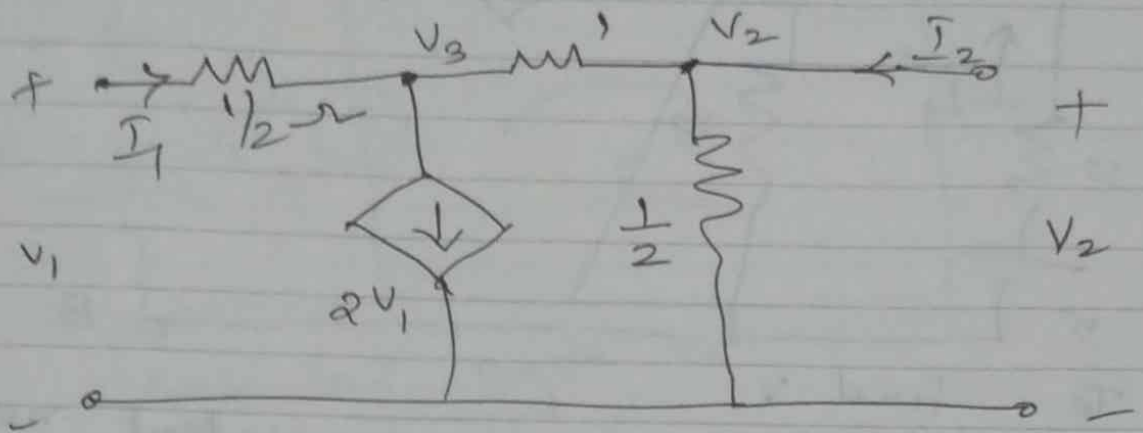
b) Find Y parameters for the network shown : [CO3] (BL3)



Sem III / 2019-20 / ENM / Te

Solution

3)b) Find Y- Parameters for the network shown



KCL at V_3 node

$$\frac{V_1 - V_3}{1/2} = 2V_1 + \frac{V_3 - V_2}{1}$$

$$2V_1 - 2V_3 = 2V_1 + V_3 - V_2$$

$$V_2 = 3V_3$$

$$V_3 = \frac{V_2}{3}$$

$$I_1 = (V_3 - V_1)2 = 2\frac{V_2}{3} - 2V_1$$

$$I_1 = -2V_1 + 2\frac{V_2}{3}$$

$$I_1 = \frac{V_1 - V_3}{1/2} = 2V_1 - 2\frac{V_2}{3}$$

$$I_1 = 2V_1 - \frac{2}{3}V_2$$

KCL at V_2 node

$$I_2 = 2V_2 + V_2 - V_3$$

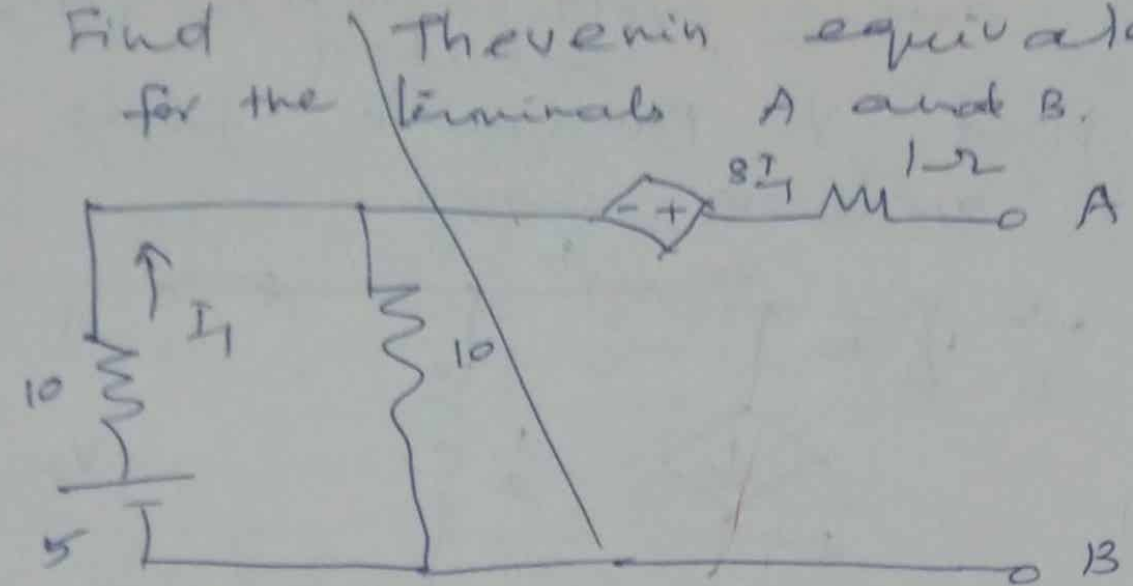
$$I_2 = 3V_2 - V_3$$

$$= 3V_2 - \frac{2V_2}{3} = \frac{8V_2}{3}$$

$$I_2 = \frac{8V_2}{3} \qquad \frac{8}{3} = 2.67$$

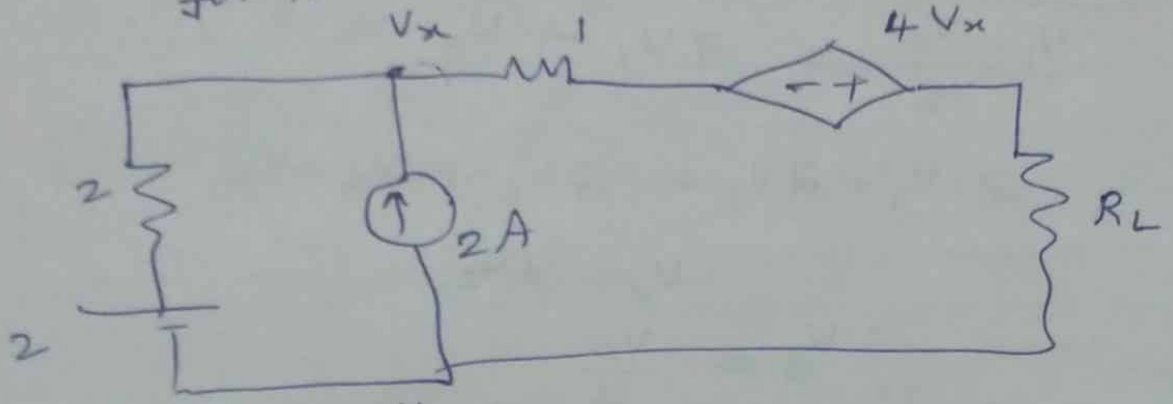
$$\begin{bmatrix} 2 & -\frac{2}{3} \\ 0 & \frac{8}{3} \end{bmatrix} \quad \frac{2}{3} = 0.67$$

2) Find Thevenin equivalent for the terminals A and B.

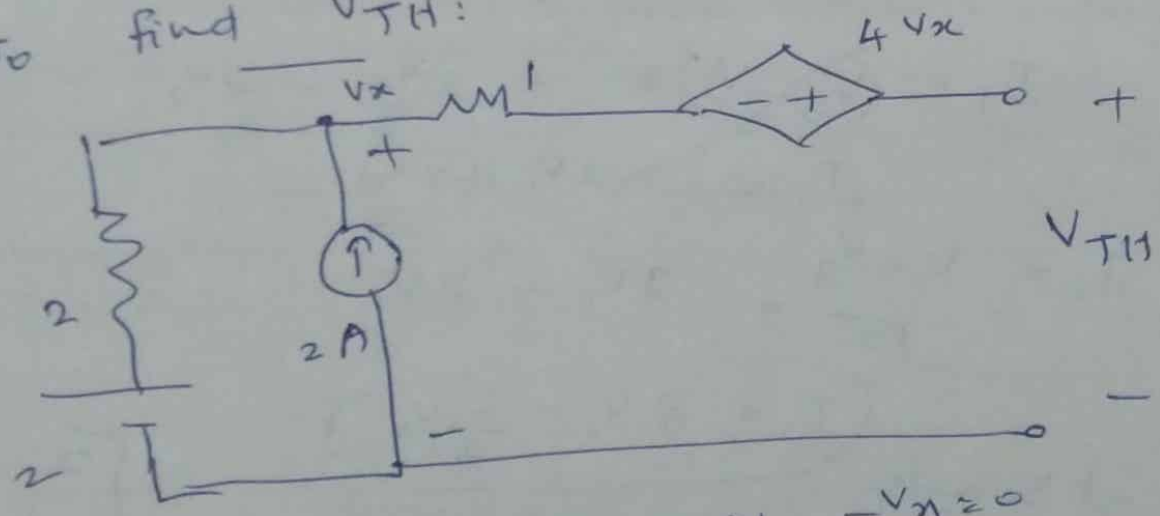


To find V

2) obtain Thevenin equivalent network for the load R_L in the network.



To find V_{TH}:



$V_{TH} - 4V_x - V_x = 0$

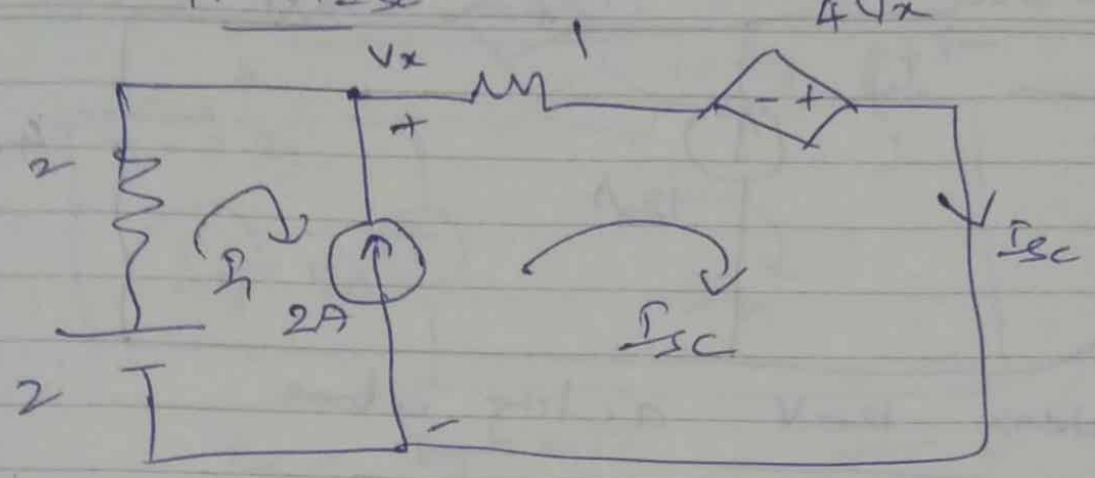
$V_{TH} = 5V_x$

KCL at node x

$\frac{V_x - 2}{2} = 2 \Rightarrow V_x = 4 + 2 = 6\,V$

$V_{TH} = 5 \times 6 = 30\,V$

To Find I_{sc}



KCL at node V_x

$$\frac{V_x - 2}{2} + \frac{V_x + 4V_x}{1} = 2$$

$$V_x - 2 + 2V_x + \cdots$$

$$5.5\,V_x = 3$$

$$V_x = \frac{3}{5.5} = 0.545\,V$$

$$I_{sc} = 5V_x = 5 \times 0.545 = 2.73\,A$$

Another Method

$$I_{sc} - I_1 = 2$$

$$2 - 2I_1 + I_{sc} + 4V_x = 0$$

$$V_x - I_{sc} + 4V_x = 0$$

$$R_{TH} = \frac{V_{TH}}{I_{sc}} = \frac{30}{2.73} = 10.98\,\Omega$$

Another method for I_{sc}

KCL $I_{sc} - I_1 = 2$ — ①

$2 - 2I_1 - I_{sc} + 4V_x = 0$; $V_x - I_{sc} + 4V_x = 0$

$2 - 2I_1 - 5V_x + 4V_x = 0$; $I_{sc} = 5V_x$

$V_x = \frac{I_{sc}}{5}$

$$2 - 2I_1 - \frac{I_{sc}}{5} = 0$$

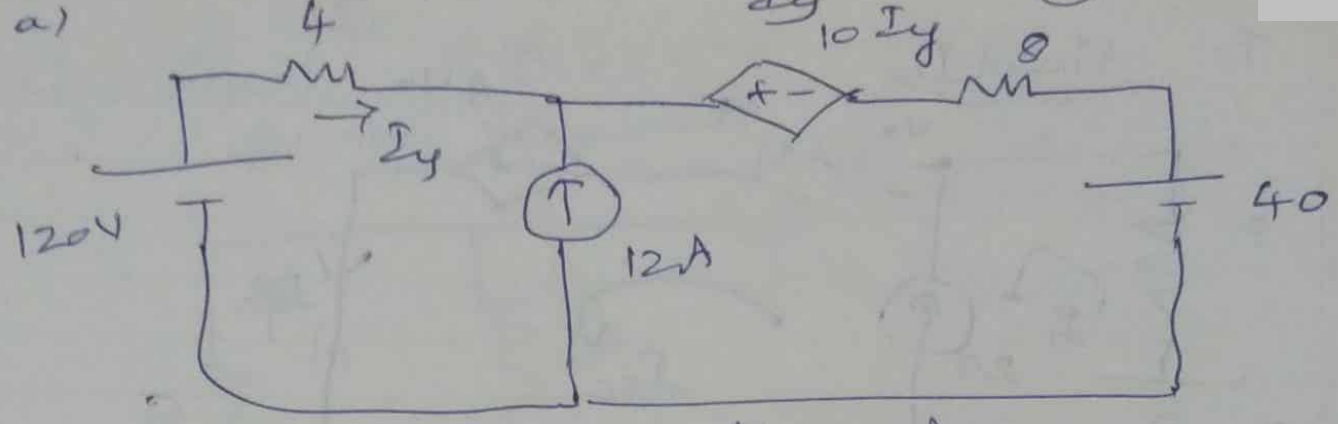
$$10 - 10I_1 - I_{sc} = 0$$

$$10I_1 + I_{sc} = 10 \quad — ②$$

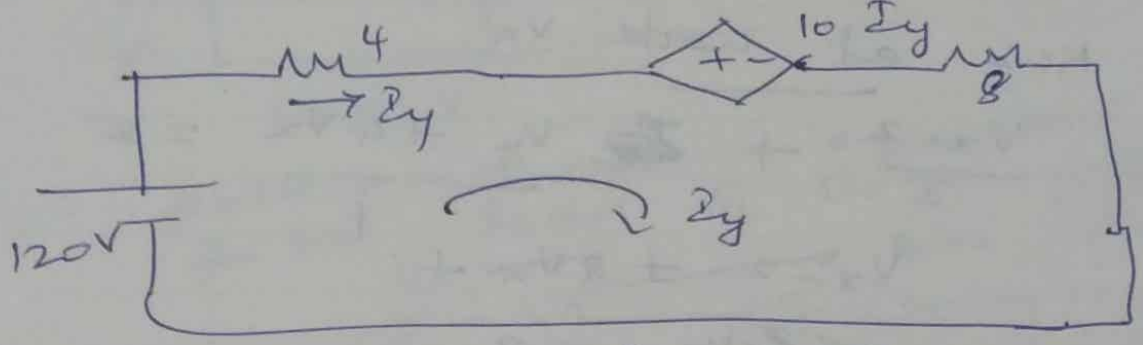
① × 10 ⇒ $-10I_1 + 10I_{sc} = 20$

$I_{sc} = 30 - 11I_{sc}$; $11I_{sc} = 30$

I) a) Find the current I_y (4)



a) Consider 120V acting alone

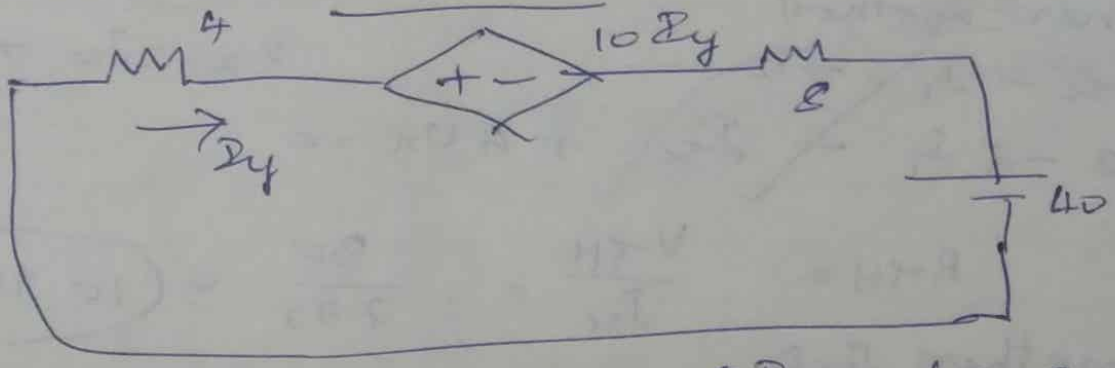


$$120 - 4I_y - 10I_y - 8I_y = 0$$

$$22I_y = 120$$

$$I_y = \frac{120}{22} = 5.45A \rightarrow$$

b) Consider 40V acting alone

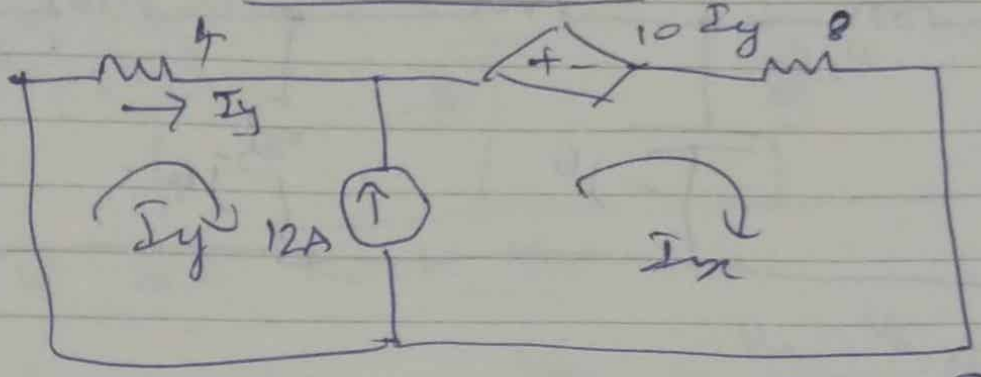


$$-4I_y - 10I_y - 8I_y - 40 = 0$$

$$-22I_y = 40$$

$$I_y = -\frac{40}{22} = -1.82A$$

c) When 12A acting alone



$$I_x - I_y = 12 \quad \text{— (1)}$$

$$-4I_y - 10I_y - 8I_x = 0$$

$$-8I_x - 14I_y = 0 \quad \text{— (2)}$$

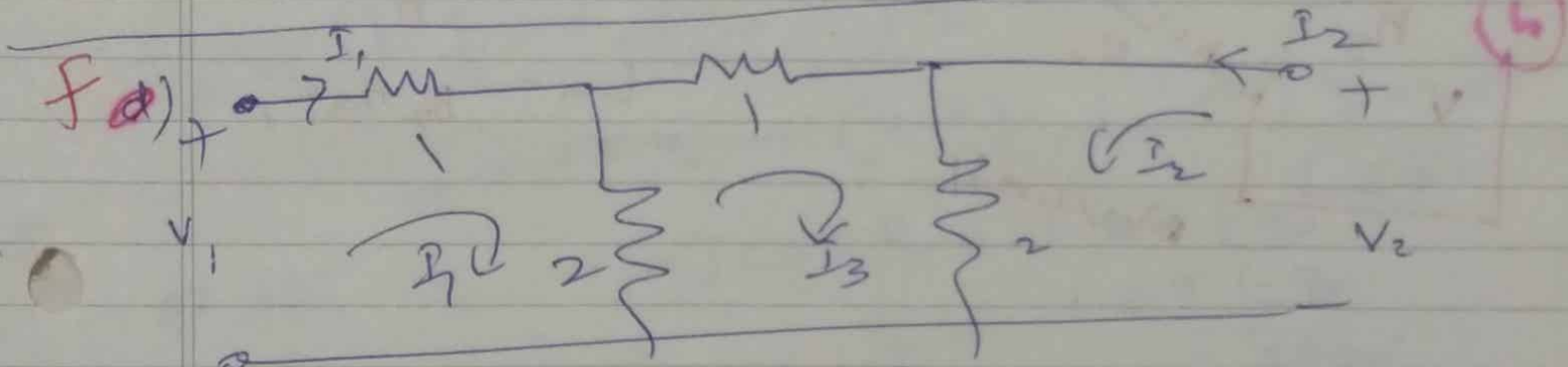
(1) × 8 ⇒ $8I_x - 8I_y = 96$ — (3)

$$-22I_y = 96$$

$$I_y = \frac{96}{-22} = -4.36$$

(4)

f a)



KVL to Mesh 1: $V_1 - I_1 - 2(I_1 - I_3) = 0$

$$V_1 = 3I_1 - 2I_3 \quad \text{— (1)}$$

KVL to Mesh 3: $-I_3 - 2(I_3 + I_2) - 2(I_3 - I_1) = 0$

$$-5I_3 - 2I_2 + 2I_1 = 0$$

$$2I_1 - 2I_2 = 5I_3$$

$$I_3 = \frac{2}{5}I_1 - \frac{2}{5}I_2 \quad \text{— (2)}$$

Put (2) in (1)

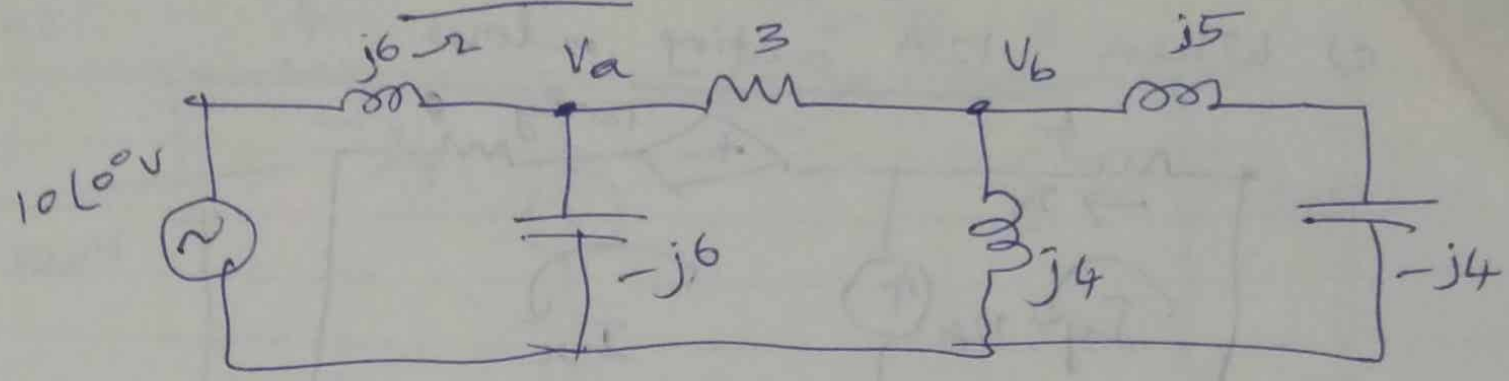
$$V_1 = 3I_1 - \frac{4}{5}I_1 + \frac{4}{5}I_2$$

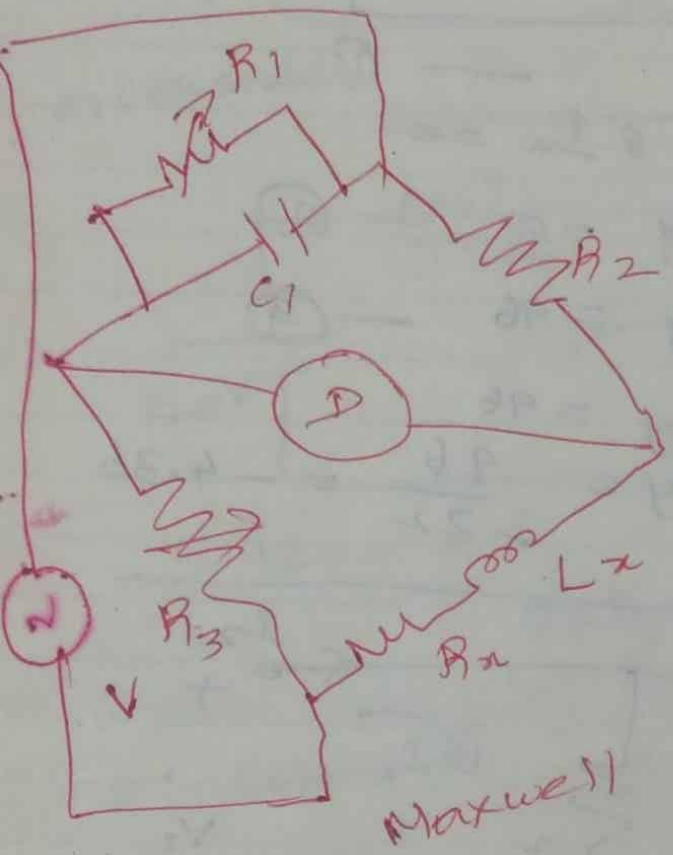
$$V_1 = \frac{11}{5}I_1 + 4/5\,I_1$$

$Z_{11} = 11/5$

$Z_{12} = 4/5$

In the network shown determine V_a and V_b.





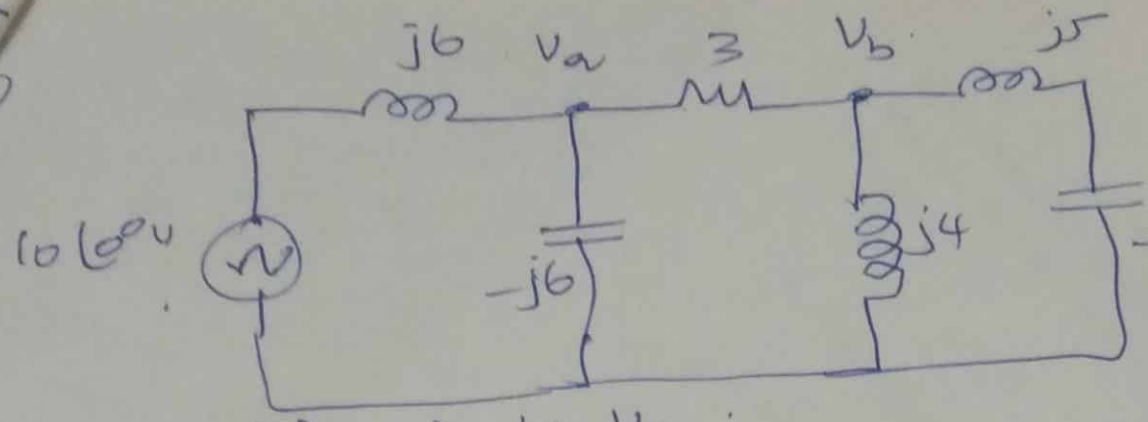
Maxwell

$$Z_x = Z_2 Z_3 Y_1$$

$$R_x + j\omega L_x = R_2 R_3 \left(\frac{1}{R_1} + j\omega C_1\right)$$

$$R_x = \frac{R_2 R_3}{R_1}$$

$$L_x = R_2 R_3 C_1$$



KCL at Node V_a:

$$\frac{V_a - 10\angle 0^\circ}{j6} + \frac{V_a}{-j6} + \frac{V_a - V_b}{3} = 0$$

$$\left(\frac{1}{j6} - \frac{1}{j6} + \frac{1}{3}\right) V_a - \frac{1}{3} V_b = \frac{10\angle 0^\circ}{j6}$$

$$0.33 V_a - 0.33 V_b = 1.67\angle -90^\circ \quad \text{①}$$

KCL at Node V_b:

$$\frac{V_b - V_a}{3} + \frac{V_b}{j4} + \frac{V_b}{j1} = 0$$

$$-\frac{1}{3} V_a + \left(+\frac{1}{3} + \frac{1}{j4} + \frac{1}{j1}\right) V_b = 0$$

$$-0.33 V_a + (0.33 - j\,1.25) V_b = 0 \quad \text{②}$$

① + ② ⇒

$$-j1.25 V_b = 1.67\angle -90^\circ$$

$$V_b = \frac{1.67\angle -90^\circ}{1.25\angle -90^\circ}$$

$$\boxed{V_b = 1.34\angle 0^\circ \text{ V}}$$

From eqn ①

$$0.33 V_a - 0.33 \times 1.34\angle 0^\circ = 1.67\angle -90^\circ$$

$$V_a = \frac{1.73\angle -75.17^\circ}{0.33}$$

$$\boxed{V_a = 5.24\angle -75.17^\circ \text{ V}}$$

DSC_8682.MOV

(a) Question paper mapped with Blooms taxonomy

Vivekanand Education Society's Institute of Technology, Chembur, Mumbai,
Department Of Computer Engineering,
Year:2018-19 (Even Sem)
Test No.- 1

Class : Final Year(BE)	**Division: D17 A,B and C**
Semester: VIII	**Subject: Machine Learning**
Date:20/02/19	**Time: 1 hr**

Course Outcome	CO1	CO2	CO6
Percentage %	15%	75%	10%

Q.1)		**(Attempt any five of the following)**	**Marks (20)**	**Course Outcomes**	**BL**
	a)	Define Machine Learning with example.	2M	CO1,CO6	L1
	b)	Differentiate Linear and Logistic Regression.	2M	CO2	L2
	c)	Describe the steps used in a machine learning algorithm?	2M	CO1,CO2	L1
	d)	Explain the term Entropy? State its use in Decision tree algorithms.	2M	CO2	L2
	e)	Discuss the Pros and Cons of Decision tree.	2M	CO2	L2
	f)	Explain the role of the version space for Candidate-Elimination algorithm.	2M	CO1,CO6	L2
Q.2)	a)	Given a decision tree, you have the option of (a) Converting the decision tree to rules and then pruning the resulting rules, or (b) pruning the decision tree and then converting the pruned tree to rules.Interpret the preferred option with an example.	5M	CO2	L2
		OR			

<table>
<tr><td></td><td>b)</td><td>Find a Decision tree for following sunburn dataset:
Consider Target attribute as sunburn (values ‘yes’ or ‘ no’) for 8 instances as training dataset. Determine the root node for the same.
<table><tr><th>ID</th><th>Hair</th><th>Height</th><th>Weight</th><th>Lotion</th><th>Sunburn</th></tr><tr><td>X1</td><td>blonde</td><td>average</td><td>light</td><td>no</td><td>yes</td></tr><tr><td>X2</td><td>blonde</td><td>tall</td><td>average</td><td>yes</td><td>no</td></tr><tr><td>X3</td><td>brown</td><td>short</td><td>average</td><td>yes</td><td>no</td></tr><tr><td>X4</td><td>blonde</td><td>short</td><td>average</td><td>no</td><td>yes</td></tr><tr><td>X5</td><td>red</td><td>average</td><td>heavy</td><td>no</td><td>yes</td></tr><tr><td>X6</td><td>brown</td><td>tall</td><td>heavy</td><td>no</td><td>no</td></tr><tr><td>X7</td><td>brown</td><td>average</td><td>heavy</td><td>no</td><td>no</td></tr><tr><td>X8</td><td>blonde</td><td>short</td><td>light</td><td>yes</td><td>no</td></tr></table></td><td>5M</td><td>CO2</td><td>L3</td></tr>
<tr><td>Q.3)</td><td>a)</td><td>Explain the steps for Candidate-Elimination Algorithm with a suitable example..</td><td>5M</td><td>CO2</td><td>L2</td></tr>
<tr><td></td><td></td><td>OR</td><td></td><td></td><td></td></tr>
<tr><td></td><td>b)</td><td>Determine the regression line for the following dataset.
<table><tr><td>i</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>x</td><td>0</td><td>0.5</td><td>1.0</td><td>1.5</td><td>2.0</td><td>2.5</td></tr><tr><td>y</td><td>0</td><td>1.5</td><td>3.0</td><td>4.5</td><td>6.0</td><td>7.5</td></tr></table>Find the value of y when x=3.5</td><td>5M</td><td>CO2</td><td>L3</td></tr>
</table>

~ All the best!!! ~

(b)Solution shared with students

Signals & Systems 21/2/19.
Dg B IAT-1 solution.
(2018-19 Even sem).

Q.1) a) Determine whether given signal is energy signal or power signal. Calculate its Energy & Power.

$x(t) = e^{-2t} \cdot u(t)$. (2)

$$E = \lim_{T\to\infty} \int_{-T}^{T} |x(t)|^2 \cdot dt = \lim_{T\to\infty} \left[\frac{1}{4} - \frac{e^{-4T}}{4}\right]$$

$$= \frac{1}{4} - \frac{e^{-\infty}}{4} = \frac{1}{4} - \frac{0}{4} = \frac{1}{4} \text{ J}$$

$$P = \lim_{T\to\infty} \frac{1}{2T} \int_{-T}^{T} |x(t)|^2 dt = \lim_{T\to\infty} \frac{1}{2T} \left[\frac{1}{4} - \frac{e^{-4T}}{4}\right]$$

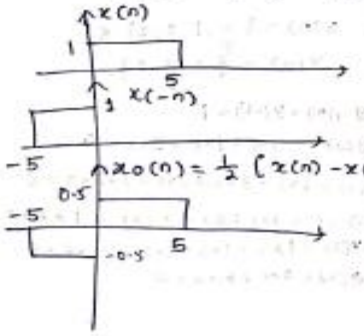
$$= \frac{1}{\infty}\left[\frac{1}{4} - \frac{e^{-\infty}}{4}\right] = 0 \times \left[\frac{1}{4} - 0\right] = 0.$$

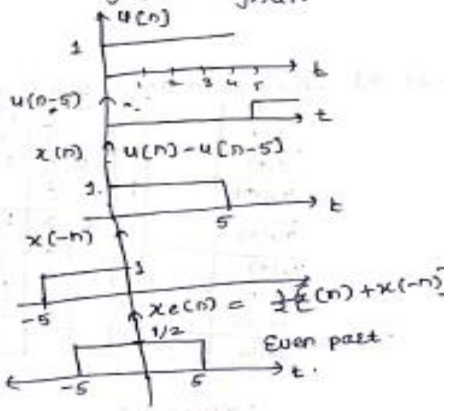
∵ Energy is constant & power is zero, the given signal is an energy signal.

b). Calculate even & odd components of given signal.

$x[n] = u[n] - u[n-5]$.

$x[-n] = u[-n] - u[-n-5]$.





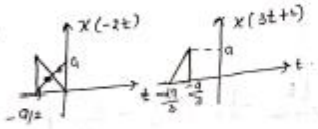
c] P.S.D – spectral density of power signal

– provides distribution of energy in freq^n domain / unit Bw — ①

$$P = \lim_{T\to\infty} \frac{1}{T} \int_{-T/2}^{T/2} x^2(t)\,dt$$

$$S(f) = \frac{1}{T_0^2} : \sum_{n=-\infty}^{\infty} |X(nf_0)|^2 \cdot \delta(f - nf_0) \quad — ①$$

d] Any 4 std CTS with graphical & mathematic representation — ②

e] 

— ②

f) $y[n] = n \cdot x[n]$.

→ Linear sys. (prove with the method) — ②

$y_1(n) = n\,x_1(n)$, $y_2(n) = n\,x_2(n)$.

$\therefore a_1 y_1(n) + a_2 y_2(n) = a_1 n x_1(n) + a_2 n x_2(n)$.

$y_3(n) = n[a_1 x_1(n) + a_2 x_2(n)] = a_1 y_1(n) + a_2 y_2(n)$

↑ Linear.

Q.2) a] Cross correlation using tabular method. $x(n) = \{1, 1, 2, 2\}$, $y(n) = \{1, 3, 1\}$.

n	-2	-1	0	1	2	3	4	
x(n)			(1)	1	2	2		
y(n)		1	3	1				
y₋₁(n)	1	3	(1)					$r_{xy}(-1) = y(-1) = 1$
y₀(n)		1	3	1				$r_{xy}(0) = 3\times1 + 1\times1 = 3+1 = 4$
y₁(n)			1	3	1			$r_{xy}(1) = 1\times1 + 3\times1 + 2\times1 = 1+3+2 = 6$
y₂(n)				1	3	1		$r_{xy}(2) = 1\times1 + 3\times2 + 2\times1 = 1+6+2 = 9$
y₃(n)					1	3	1	$r_{xy}(3) = 1\times2 + 2\times3 + 1\times1 = 2+6 = 8$
y₄(n)						1	3	$r_{xy}(4) = 2\times1 + 0 + 0 = 2$

$\therefore R_{xy}(n) = \{1, 4, 6, 9, 8, 2\}$

↑

Q.2] b) Autocorrelation of

$x(t) = 3\cos t + 4\cos 3t$

→ Step 1 - $R_1(\tau) = \frac{1}{T_1}\int_{-T_1/2}^{T_1/2} 9\cos t \cos(t-\tau)\,dt$ ($\because$ Power signal). ($T_1 = 2\pi$).

using $2\cos A\cos B = \cos(A+B) + \cos(A$

$= \frac{9}{2}\cos\tau$.

$R_2(\tau)$: T_2 = fundamental period of $4\cos 3t = 2\pi/3$. using above eqn.

$= \frac{1}{T_2}\int_{-T_2/2}^{T_2/2} 16\cos 3t\cos 3(t-\tau)\,dt = 8\cos 3\tau$.

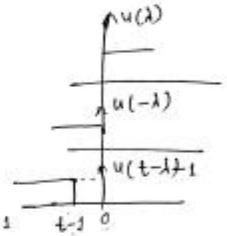
$R(\tau) = R_1(\tau) + R_2(\tau) = \frac{9}{2}\cos\tau + 8\cos 3\tau$.

Q.3] a) convolution

$x(t) = e^{-3t}u(t)$ & $h(t) = u(t-1)$

$y(t) = \int_{-\infty}^{\infty} x(\lambda)\cdot h(t-\lambda)\cdot d\lambda$

$= \int_{-\infty}^{\infty} e^{-3\lambda}\cdot u(t-\lambda-1)\cdot u(\lambda)$.



$= \int_0^{t-1} e^{-3\lambda}\cdot 1\,d\lambda = \left[\frac{e^{-3\lambda}}{-3}\right]_0^{t-1}$

$= -\frac{1}{3}\left[\frac{e^{-3\lambda}}{1}\right]_0^{t-1} = -\frac{1}{3}\left[e^{-3[t-1]} - e^{0}\right]$

$y(t) = -\frac{1}{3}\left[e^{-3t+3} - 1\right] = \frac{1}{3} - \frac{1}{3}e^{-3(t-1)}$.

Q.3] b) Convolution of

$$x[n] = \left(\frac{1}{3}\right)^n u(n) \quad , h(n) = \left(\frac{1}{2}\right)^n u(n).$$

$$y(n) = \sum_{m=-\infty}^{\infty} [x_1(m) \cdot h(n-m)] \cdot u(n)$$

$$= \sum_{m=0}^{n} \left(\frac{1}{3}\right)^m \left(\frac{1}{2}\right)^{n-m} = \sum_{m=0}^{n} \left(\frac{1}{3}\right)^m \left(\frac{1}{2}\right)^n \left(\frac{1}{2}\right)^{-m}$$

$$= \left(\frac{1}{2}\right)^n \sum_{m=0}^{n} \left(\frac{1}{3}\right)^m 2^m = \left(\frac{1}{2}\right)^n \sum_{m=0}^{n} \left(\frac{2}{3}\right)^m.$$

$$= \left(\frac{1}{2}\right)^n \left[\frac{\left(\frac{2}{3}\right)^{n+1} - 1}{\frac{2}{3} - 1}\right].$$

$$= \left(\frac{1}{2}\right)^n \left[\frac{\left(\frac{2}{3}\right)^{n+1} - 1}{-1/3}\right].$$

$$= -3\left(\frac{1}{2}\right)^n \left[\left(\frac{2}{3}\right)^{n+1} - 1\right]$$

Solution DMMM

1. a) R.H.S

$P \rightarrow (P \wedge Q)$	
$\sim P \vee (P \wedge Q)$	implication
$(\sim P \vee P) \wedge (\sim PVQ)$	distributive
$T \wedge (\sim PVQ)$	Inverse
$(\sim PVQ)$	identity
$P \rightarrow Q$	implication

b) A, B, D, C, E, F, G Hamiltonian path

A, B, D, C, E, F, G, A Hamiltonian circuit

c)

$$M_R = \begin{matrix} 1 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{matrix} \qquad M_S = \begin{matrix} 0 & 1 & 0 \\ 0 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 1 & 0 \end{matrix}$$

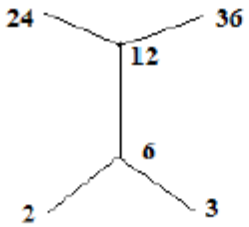
$$M_{R \cup S} = \begin{matrix} 1 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 1 & 0 \end{matrix} \qquad M_{S \cap R} = \begin{matrix} 0 & 1 & 0 \\ 0 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{matrix}$$

d) $R^2 = \{(a,a), (a,b), (a,c), (b,d), (b,e), (c,e)\}$

e) Simple graph , multi graph, pseudo graph, null graph, complete graph

f)

$$M_R = \begin{matrix} 1 & 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{matrix}$$



2 a) i)

ii) minimal = {2,3}

maximal= { 24,36}

least and greatest does not exist.

iii) LB of B = { 2,3,6}

UB of B = { 12,24,36}

LUB = 12 GLB = 6

b) A= {1,2,3} R= { (1,2), (2,3), (2,1), (3,1), (3,2)}

step1: $W_0 = \begin{matrix} 0 & 1 & 0 \\ 1 & 0 & 1 \\ 1 & 1 & 0 \end{matrix}$ $W_1 \rightarrow 1^{st}$ column & 1^{st} row

(2, 3) & (2)

(2, 2), (3, 2)

Step 2: $W_1 = \begin{matrix} 0 & 1 & 0 \\ 1 & 1 & 1 \\ 1 & 1 & 0 \end{matrix}$ $W_2 \rightarrow 2^{nd}$ column & 2^{nd} row

(1, 2, 3) & (1, 2, 3)

(1,1) (1,2) (1,3) (2,1) (2,2), (2,3) (3,1)(3,2),(3,3)

Step 3: $W_2 = \begin{matrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{matrix}$ $W_2 = W_3$

R^{∞} = { (1,1) ,(1,2), (1,3), (2,1), (2,2), (2,3), (3,1),(3,2),(3,3) }

3 a) Not reflective, irreflective, symmetric, not asymmetric, not antisymmetric, not transitive

Identity is 0.

b) P= I play football.

Q= I can study.

R = I pass DS

Premises are :-

i) $P \rightarrow \sim Q$
ii) QVR
iii) P

Conclusion: R

Proof :

1)	$P \rightarrow \sim Q$	premise (i)
2)	P	premise (iii)
3)	$\sim Q$	line 1, 2 Modus pones
4)	QVR	premise (ii)
5)	R	line 3, 4 Disjunctive syllogism

Vivekanand Education Society's Institute of Technology, Chembur, Mumbai,
Department Of Computer Engineering,
Year:2017-18 (Odd Sem)
Test No.-1

Class : D12	**Division: A / B / C**
Semester: V	**Subject: Operating System**
Date: 19/08/2017	**Time: 1 hr**

Course Outcome	CO1	CO2
%	**85%**	**15%**

Q.1)		(Attempt any five of the following)	Marks	Course Outcomes
	a)	Define OS ? what are its objectives?	2M	CO1
	b)	Explain system call and enlist its types.	2M	CO1
	c)	Draw 5 state process model	2M	CO1
	d)	What are short and medium-term scheduling	2M	CO1
	e)	What are advantages of multiprogramming	2M	CO1
	f)	State characteristics of good process scheduler	2M	CO1
Q.2)	a)		5M	CO1,CO2

process	BT	AT	priority
P1	8	0	3
P2	1	1	1
P3	3	2	2
P4	2	3	3
P5	6	4	4

1)Draw Gantt chart for ,Preemptive Priority and RR(Q=2) and calculate ATAT and AWT

		OR		
	b)	Explain multilevel Queue scheduling algorithm	5M	CO1,CO2
Q.3)	a)	Explain PCB.	5M	CO1
		OR		
	b)	What is Shell? Explain following commands with example. 1.umask 2. Grep 3. Chmod 4. Head 5. useradd	5M	CO1

~ All the best!!! ~

Q2) a)

Process	Burst	Arrival	priority
P_1	8	0	3
P_2	1	1	1
P_3	3	2	2
P_4	2	3	3
P_5	6	4	4

(Lower value higher priority)

① Preemptive priority

TA $P_1 = 12-0 = 12$

$P_2 = 2-1 = 1$

$P_3 = 5-2 = 3$

$P_4 = 14-3 = 11$

$P_5 = 20-4 = 16$

Avg TA $= \frac{16+27}{5} = \frac{43}{5}$

$= 8.6$

WT $P_1 = 0+5-1 = 4$

$P_2 = 0$

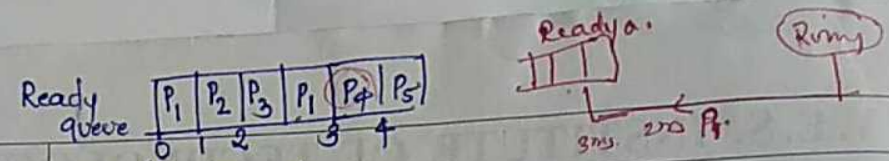
$P_3 = 2-2 = 0$

$P_4 = 12-3 = 9$ [11-2=

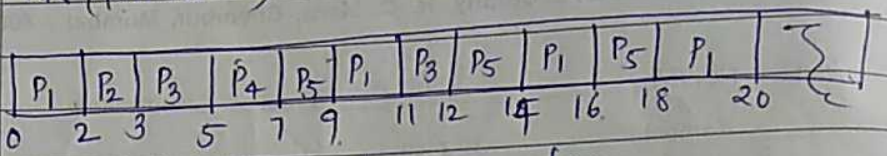
$P_5 = 14-4 = 10$ [16-4

Avg WT $= \frac{14+9}{5} = \frac{23}{5}$

$= 4.$

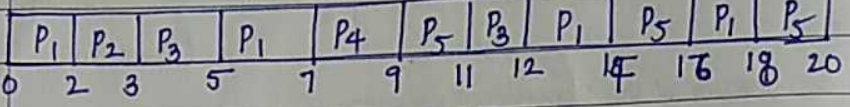


RR (Quantum = 2)



~~but as~~ P_1 appears before P_4 in ready queue we have.

P_1-4
P_3-1
P_5-4



WT:- $P_1 = (0-0)+(5-2)+(12-7)+(16-14)$

$= 3+5 = 8+2 = 10$

$P_2 = 2-1 = 1$

$P_3 = (3-2)+(11-5) = 1+6 = 7$

$P_4 = 7-3 = 4$

$P_5 = (9-4)+(14-11)+(18-16)$

$= 5+3+2 = 10$

Avg WT $= \frac{32}{5} = 6.4$

Turnaround time

$P_1 = 18-0 = 18$

$P_2 = 3-1 = 2$

$P_3 = 12-2 = 10$

$P_4 = 9-3 = 6.$

$P_5 = 20-4 = 16.$

Avg TT $= \frac{52}{5} = 10.4$

Q1) a) Operating system is an interface betw hlw & slw of compure. It does various jobs of resource allocation, mem mgmt, Process mgmt, file mgmt etc.

Objectives:- ① Convenience:- Provide an interface betw the system and human user.

② Efficiency:- efficient methods for managing mem, process etc.

③ Ability to evolve:- New hlw fixes & features can easily be added to system wlo affecting services.

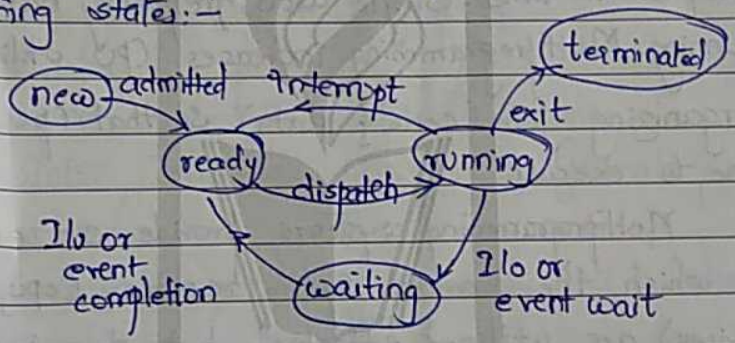
b) Systemcall:- Provide an interface to services made available by an OS.

These calls are generally available as routines written in C/C++. Higher level requests, satisfied by cmd interpreter or system programs, are translated into a sequence of system calls.

System calls are categorized into six categories:-

1. Process control: fork(), exit(), wait(), abort()
2. file manipulation: open(), read(), write(), close().
3. Device manipulation: ioctl(), read(), write()
4. Information maintenance: getpid(), alarm(), sleep()
5. Communication: pipe(), shmget(), mmap(), stat()
6. Protection: chmod(), umask(), chown().

(c) Process state model:- As a process executes, it changes state. The state of a process is defined in part by the current activity of that process. Each process may be in of the following states:-



(d) Scheduler:- A process migrates among various scheduling queues throughout its lifetime. The scheduler selects processes from this queues in some fashion for their execution.

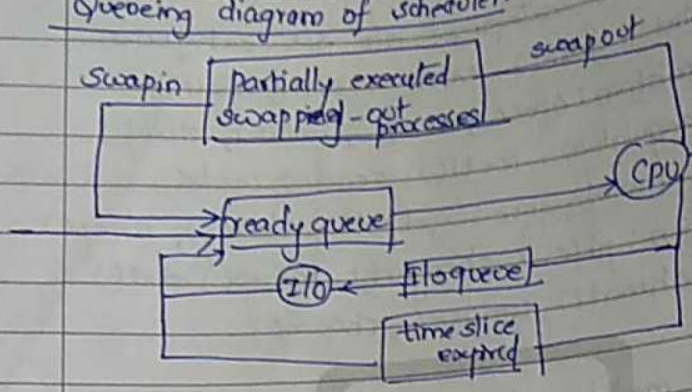
The short term scheduler/CPU scheduler selects from among the processes that are ready to execute & allocates the CPU to one of them.

The Medium-term scheduler, removes processes from memory (and from active contention of the CPU) and thus reduces the degree of multiprogramming.

The process is swapped out, and is later swapped in, by medium term scheduler.

Q3) a)

Queueing diagram of scheduler:-



Ans) e) Multiprogramming:-

A single pgm, cannot, keep either the CPU or I/O devices busy at all times. Single users frequently have multiple pgms running. Multiprogramming increases CPU utilization by organizing jobs (code & data) so that CPU always have one to execute.

Multiprogramming systems provide an environment in which the various system resources (cpu, mem, peripheral devices) are utilized effectively, but do not provide for user interaction with computer system.

Adv ① Increased CPU utilization

② Increased Throughput (Total no of pgms executed over a fixed period of time).

③ Shorter Tusnaround time.

④ Improved Mem utilizato: More than one pgm in mem

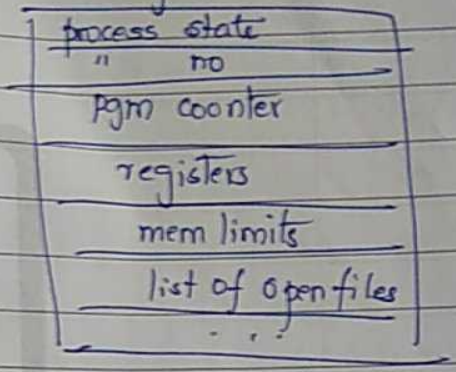
⑤ Increased Resource utilizato.

Ans) f) Characteristics of good scheduler:-

1. Max CPU utilization
2. Max Throughput
3. Min Response Time (Time from submission of process request till first response is produced)

4. Min Turnaround Time
5. Min Waiting Time.
farmers

Q3) a) PCB (Process Control block)
Each process is represented in OS by PCB or TCB
It contains:-



① Process state: State may be new, ready, running, waiting, halted & so on.
② Pgm counter:- indicates the addr. of next instruction to be executed for this process.
③ CPU registers:- Architecture specific includes: Accumulator, Index reg, stack ptr, General-purpose reg & condition code information.
④ CPU Scheduling Info:- Process priority, ptr to scheduling queues, etc
⑤ Mem-mgmt Info:- Includes base & limit reg, page tables, or the seg tables depending on the mem system used by OS.
⑥ Accounting Info:- includes amt of CPU & real time used, time limits, jobor process no etc.
⑦ I/o status Info:- includes list of I/O devices allocated to the process, a list of open files & so on.
PCB serves as the repository for any info that may vary from process to process.

Vivekanand Education Society's Institute of Technology

Department of MCA [A.Y. 2016-17]

Financial Accounting & Management(FAM)

F.Y.M.C.A. [Semester II] **First & Second Shift – Class Test I(20Marks)**

Note: All Questions are Compulsory **Date: 28th Feb. 2017, 11:00 To 12:00**

Q.1. Trial Balance of Ms. B & Co., prepare Final Account for the year ending 31/03/2016. **(10)**

Trial Balance as on 31st March 2016

Particulars	Debit Amt.(`)	Credit Amt.(`)
Sales		1,00,000
Sales Return	1,000	
Cash in hand	90,000	
Purchases	20,000	
Rent received		2,000
Carriage		1,000
Stock(1st April 2015)	50,000	
Bills Receivable	1,00,000	
Capital		7,75,000
Plant & Machinery	10,00,000	
Rent & Taxes	5,000	
Sundry Debtors	1,00,000	
Bills Payable		4,89,000
Drawings	1,000	
Total	**13,67,000**	**13,67,000**

Adjustments:-

i. Closing Stock on 31st March 2016 1,00,000` ii. Depreciate Plant & Machinery by 10%

Q.2. Mr. Narendra commenced business as on 1st January, 2017. Based on following information journalize the transaction. **(05)**

2017		INR. (`)
January 01	Invested cash	**3,00,000**
January 02	Purchased Machinery	**1,10,000**
January 02	Wages Paid for installation of Machinery	**10,000**
January 05	Bought Computer from Mamta	**28,600**
January 22	Purchased goods from Raman	**15,000**
January 31	Cash Sales for the month	**18,000**

Q.3. Attempt ANY FIVE from following. **(05)**

Explain Debit & Credit balance.

Explain Break Even Point.

Sales account will show credit balance. Justify.

Outstanding wages are liabilities. Justify.

Explain Consistency Convention.

Explain significance of “Margin of Safety”.

Mr. P account has debit balance & Mr. G account has credit balance. Explain the meaning.

***** **ALL THE BEST** *****

Q.1.

Cash Budget
(for the month of Jan to Mar)

Particulars	Jan	Feb	Mar
Opening Balance	**50,000**	**1,98,200**	**4,06,400**
A) Receipts			
Slaes	2,40,000	3,00,000	2,80,000
Total (A)	**2,40,000**	**3,00,000**	**2,80,000**
B) Payments			
Purchases	70,000	70,000	65,000
Preference Dividend	---	---	5,000
Tax	---	---	8,000
Electricity Bill	1,800	1,800	1,800
Salary	20,000	20,000	20,000
Total (B)	**91,800**	**91,800**	**99,800**
Closing Balance[Opening Balance + (A - B)]	**1,98,200**	**4,06,400**	**5,86,600**

Q.2.

(i)

Debtors Turnover Ratio = Net Credit Sales / Average Debtors

240,000

(27,500 + 32,500)/2 = 8 times

Average Collection Period = No. of days/Debtors Turnover Ratio

=360/8

=45 days

(ii)

1. Creditors=Net credit purchases/Avg. creditors

Turnover Ratio

= 180,000 /(42,500 + 47,500)/2

= 4 times

Gross Profit Ratio **(Gross Profit/Net Sales)*100**

= (Net Sales- Cost of Goods Sold) * 100

=Net Sales = (25,00,000 - 20,00,000)/net sales * 100

25,00,000 = 20 %

Q.3.

Calculation of Accounting Rate of Return(ARR) (in Lakhs)

	Year	B-Unstoppable	Eedu
	2014	2,000	3,000
	2015	3,000	3,500
	2016	4,000	3,700
	Total	9,000	10,200
A	**Avg. Profit After Tax(PAT) (Total PAT/3)**	3,000	3,400
B	**Avg. Investment=(6,000+2,000)/2**	4,000	4,000
C	**Acc. Rate of Return(A/B) * 100**	75%	85%

Since Project "Eedu" has highest Accounting rate of return we suggest management to select Project "Eedu"

UNIVERSITY OF MUMBAI

MCA Summer Examination 2020

Guidelines with Reference to CIRCULAR: No.DBOEE/ICD/2020-21/ 05 23nd May, 2020

General: MCA Examination is carried out with 80:20 pattern, 80 marks for the end semester examination and 20 marks for internal assessment (IA). IA is calculated from average of two Internal Assessment tests (T-1 & T-2 carried out for 20 marks each). MCA semester I to VI results are declared by the University, Institutes are required to complete the Internal Assessments.

MCA Semester VI Examination:

T/W Submission and Internal Assessment:

1. Submission for all the students be taken online on any of the suitable platforms like email/ LMS etc.
2. Internal Assessment (IA) be conducted online. Those students who were absent for the Internal Assessment in internship, reassessment conducted are to be accounted.

FYMCA/SYMCA Examination:

I. **Internal Assessment and Term Work Submission:**

1. Based on the student's performance in Internal Assessment, Term work / Practical & the required overall 75% attendance considering the actual attendance of students before the lockdown (13th March 2020) and adding the number of days from 13th March 2020 till the end of the semester due to lockdown, the students be considered for the evaluation for the academic year 2019-2020.
2. Term-work for all the students be taken online on any of the suitable platforms like email/ LMS etc.
3. Calculation of the Term Work marks be based on the regular lab course submissions completed till the 13thMarch with necessary assignments /lab write-ups duly completed as mentioned in the syllabus.
4. All the colleges have completed the Internal Assessment Test 1 (T-1). T-2 is not been conducted by some of the institutes. So only T-1 marks to be used to grade the internal assessment of the students.
5. Online Internal Assessment Test 1 (T-1) retest be conducted for those students who were absent for the Internal Assessment Test -1 (T-1) in any subject or subjects of

the current semester and marks obtained in retest conducted are to be accounted.

6. For those students who failed in the Internal Assessment Test -1 (T-1) of any subject or subjects of the current semester, Institute can conduct online retest if student/ students are willing to appear for such test to improve their performance in Internal Assessment. The students can opt as per their willingness for such internal retest. If student appears for the retest, then the average of marks obtained in the two internal assessment test (T-1 conducted during regular term and retest) should be considered for further calculations needed for performance evaluation. In case, if student do not opt for the retest, then the marks obtained in T-1 should only be considered.

Internship

The students are to be allowed to take up 'online internships/ activities' including the activities that can be carried out digitally or otherwise from home. Students can also engage themselves to work as interns on ongoing projects. Delay in the start date for internship as well as reduction in the period of internship should be allowed.

All institutes are required to complete the internal assessment and keep the marks ready. University will communicate the submission of the marks.

Chairperson
Board of Studies, MCA, UOM

VIVEKANAND EDUCATION SOCIETY'S

Institute of technology
HAMC Collector's Colony, Chembur, Mumbai – 74

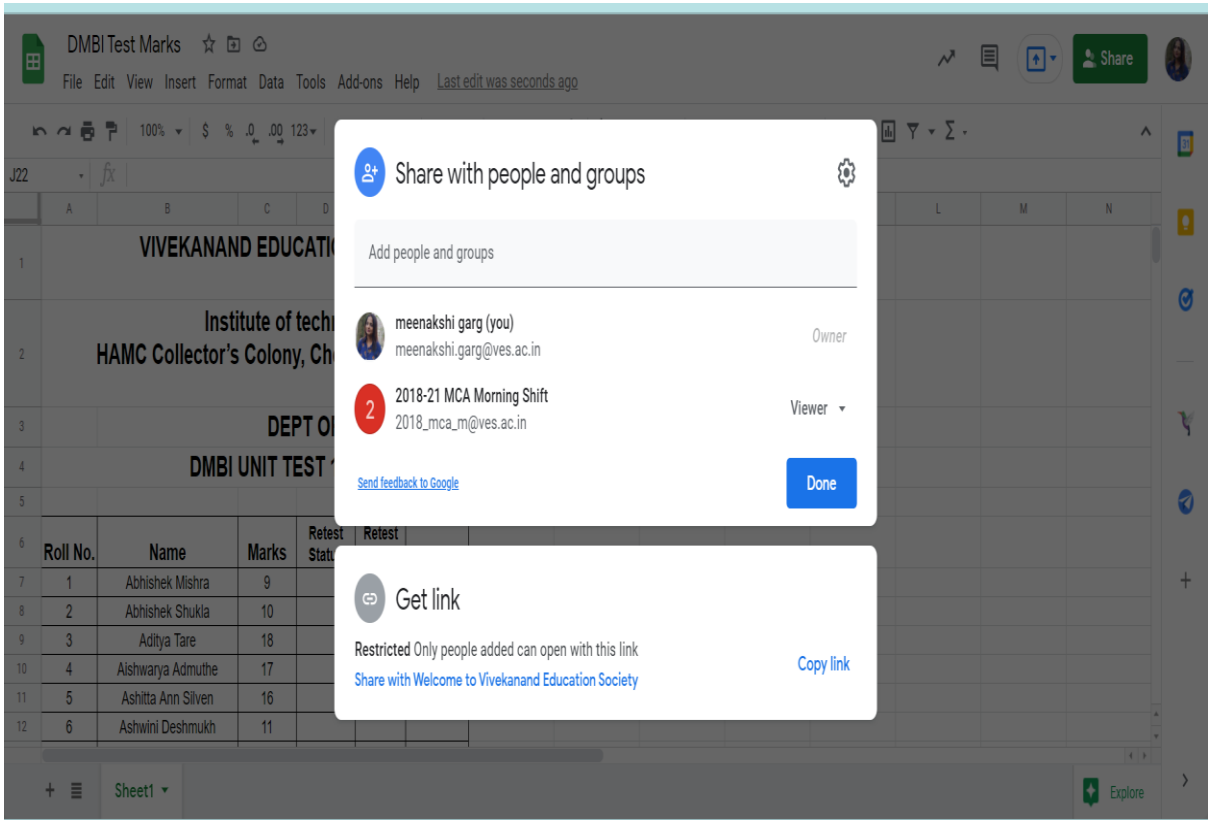
DEPT OF MCA

DMBI UNIT TEST 1 MARKS

Roll No.	Name	Marks	Retest Status	Retest Marks	Avg
1	Abhishek Mishra	9			
2	Abhishek Shukla	10			
3	Aditya Tare	18			
4	Aishwarya Admuthe	17			
5	Ashitta Ann Silven	16			
6	Ashwini Deshmukh	11			
7	Asmeeta Panchal	13			
8	Avinash Kalani	15			
9	Chanchal Patil	11			
10	Darshan Khot	14			
11	Devansh Tailor	13			
12	Dhrupesh Indap	7	yes	15	11
13	Disha Khatri	15			
14	Aniket Gadge	7	yes	15	11
15	Gaurav Sandu	10			
16	LEFT	NIL			
17	Jaspreet Kaur	19			
18	Jitendra Sahoo	14			
19	Kakshik Patil	14			
20	Komal Khandelwal	13			
21	Vishal kshirsagar	9			
22	Bhavish Kukreja	10			
23	Lakshmipriya S. K.	17			
24	Richa Manchanda	15			
25	Mayur Nagraj	10			
26	Mohammed Affan Khan	6	yes	7	6.5
27	Nandan Tendulkar	11			
28	Nishant Hari Bhandary	16			
29	Susmita Patre	9			
30	Pawan Shadija	17			
31	Pooja Gupta	17			
32	Pranali Gupte	17			
33	Pranav More	15			
34	Prateek Gupta	17			
35	LEFT	NIL			

36	Priyal Danani	17			
37	LEFT	NIL			
38	Ritesh Yadav	16			
39	Rohan Kumbhare	13			
40	Samiksha Sampat Dhavale	19			
41	Sanchita Rane	18			
42	Sanket Kadam	11			
43	Sarvesh Dalvi	13			
44	Satyajit Sahu	13			
45	Saurabh More	17			
46	Shrestha Upadhyay	13			
47	Akash Landge	7	yes	17	12
48	Shruti Vakkat	17			
49	Siddhartha Chaki	15			
50	Sneha Shankar Hirnaik	14			
51	Sneha Thomas	16			
52	Soumya K Soochik	14			
53	Sushil Saindane	15			
54	Swati Mishra	16			
55	Tanwi Jakhadi	16			
56	Valeed Kotvala	14			
57	Vikrant Dharap	8	yes	17	12.5
58	Vinayak Padgaonkar	14			
59	Vishal Bhandari	13			
60	Vishal Mourya	14			
61	Akshay Ingole	4	yes	15	9.5

Internal Assessment Marks Shared with Students
(2019-20)



Dr. Meenakshi Garg <meenakshi.garg@ves.ac.in>

retest timetable

1 message

Mona Deshmukh <mona.deshmukh@ves.ac.in> Sat, Jun 13, 2020 at 11:03 AM
To: 2018_mca_e@ves.ac.in, 2019_mca_m@ves.ac.in, 2019_mca_e@ves.ac.in, 2018-21 MCA Morning Shift <2018_mca_m@ves.ac.in>
Cc: Master of Computer Application <mca@ves.ac.in>, manju ahuja <manju.ahuja@ves.ac.in>, exam vesit <exam.vesit@ves.ac.in>, A Nagananda <a.nagananda@ves.ac.in>, Smita jangale <smita.jangale@ves.ac.in>

please ignore the previous email.

dear students

Attached herewith the timetable of retest.

Thanks and Regards,
Ms.Mona Deshmukh
Vivekanand Education Institute of Technology
chembur,Mumbai

Go Green , Please consider the environment before printing this email.

MCA Re test june 2020 timetable.docx
17K

VES INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MCA
RETEST IA1

13/06/2020

Retest Guidelines

1. **Retest will be conducted through Google classroom.(code will be shared before the exam)**
2. **Students have to write the paper and then scan and upload the same in Google classroom.**
3. **The total duration of the test is 3:00pm to 5:00pm.**
4. **Papers should be scanned and uploaded before 5pm.**

Retest Time Table

2nd YEAR (IV Sem)

DATE	TIME	SUBJECT IV - SEM
15/06/2020(Monday)	**3:00 PM - 5:00 PM**	DMBI
16/06/2020(Tuesday)	**3:00 PM - 5:00 PM**	AWT
17/06/2020(Wednesday)	**3:00 PM - 5:00 PM**	CG
18/06/2020(Thursday)	**3:00 PM - 5:00 PM**	ECSR
19/06/2020(Friday)	**3:00 PM - 5:00 PM**	AISC/DF
20/06/2020(Saturday)	**3:00 PM - 5:00 PM**	SSD

1st YEAR (II Sem)

DATE	TIME	SUBJECT II- SEM
15/06/2020(Monday)	**3:00 PM - 5:00 PM**	DS
16/06/2020(Tuesday)	**3:00 PM - 5:00 PM**	OS
17/06/2020(Wednesday)	**3:00 PM - 5:00 PM**	CN
18/06/2020(Thursday)	**3:00 PM - 5:00 PM**	FAM
19/06/2020(Friday)	**3:00 PM - 5:00 PM**	DMMM

Ms. Mona Deshmukh
(EXAM INCHARGE)

Dr.Shivkumar Goel
(Dy.H.O.D)

V.E.S.INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MCA

DMBI TEST MARKS

2017-18

Roll NO	NAME	test 1	Test 2	Average	Sign
1	ADAM	10	20	15	
2	DANISH	15	16	16	
3	ASHISH	15	14	15	
4	LOVEENA	19	14	17	
5	ASHISH	15	14	15	
6	AJAY	17	14	16	
7	DNYANESHWARI	5	13	9	
8	MANDAR	3	4	4	
9	SAYALI Gade Devaji	12	11	12	
10	MUGDHA	14	17	16	
11	SACHIN	15	15	15	
12	SAYALI Devaji Gade	14	16	15	
13	PARTH	7	10	9	
14	SIDDHESH	9	11	10	
16	NAMIT	6	9	8	
17	CHANDAN	13	18	16	
18	AKASH	11	18	15	
19	JAY	20	20	20	
20	Akshay Joshi	0	18	9	
21	SHUBHAM	18	19	19	
22	SIDDESH	16	17	17	
23	HIRAL	16	12	14	
25	MAYANK	9	13	11	
26	MANIGANDAN	11	9	10	
28	ATIT	4	14	9	
30	PAWANDEEP	20	15	18	
31	NIRBHAY	15	14	15	
32	CHIRAG	11	13	12	
33	DEVESH	8	9	9	
34	NIKITA	16	16	16	
35	POOJA	16	13	15	
36	SANKET Patil	12	0	6	
37	PRIYANKA Pawar	16	15	16	
38	VARSHA	16	16	16	

V.E.S.INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MCA

DMBI TEST MARKS

2017-18

Roll NO	NAME	test 1	Test 2	Average	Sign
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2	DANISH	15	16	16	
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5	ASHISH	15	14	15	
6	AJAY	17	14	16	
7	DNYANESHWARI	5	13	9	
8	MANDAR	3	4	4	
9	SAYALI Gade Devaji	12	11	12	
10	MUGDHA	14	17	16	
11	SACHIN	15	15	15	
12	SAYALI Devaji Gade	14	16	15	
13	PARTH	7	10	9	
14	SIDDHESH	9	11	10	
16	NAMIT	6	9	8	
17	CHANDAN	13	18	16	
18	AKASH	11	18	15	
19	JAY	20	20	20	
20	Akshay Joshi	0	18	9	
21	SHUBHAM	18	19	19	
22	SIDDESH	16	17	17	
23	HIRAL	16	12	14	
25	MAYANK	9	13	11	
26	MANIGANDAN	11	9	10	
28	ATIT	4	14	9	
30	PAWANDEEP	20	15	18	
31	NIRBHAY	15	14	15	
32	CHIRAG	11	13	12	
33	DEVESH	8	9	9	
34	NIKITA	16	16	16	
35	POOJA	16	13	15	
36	SANKET	12	0	6	
37	PRIYANKA Pawar	16	15	16	
38	VARSHA	16	16	16	

Course Educational Objectives (CEO): At the end of the course, the students will be able to

CEO 1	Understand the concepts of output primitives of Computer Graphics.
CEO 2	Learn 2 D and 3 D graphics Techniques.
CEO 3	Study various Image Processing techniques

Course Outcomes (CO): At the end of the course, the students will be able to:

CO1	Demonstrate the algorithms to implement output primitives of Compute Graphics.
CO2	Apply 2 D transformation techniques.
CO3	Analyze 3 D transformation techniques.
CO4	Apply image processing techniques.

Programme Educational Objectives:

A) To provide students with a solid foundation in the core engineering concepts like mathematics, programming, data management, networking etc. This will further enable students to analyse, design and create solutions for any enterprise, national or global in multidisciplinary fields.

B) To inculcate in students a strong ethical and professional attitude which along with effective communication, managerial and teamwork skills will enable success in a broad social context.

C) To prepare the students to excel in academic environment and make them ready for productive employment through global education and to empower them to develop high end business and innovative skill.

D) To provide broad educational and research experience through interdisciplinary and industrial collaboration program.

Programme Outcomes

PO	Description
PO1	**Computational Knowledge:** Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
PO2	**Problem Analysis:** Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.

PO3	**Design /Development of Solutions:** Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
PO4	**Conduct investigations of complex Computing problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	**Modern Tool Usage:** Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
PO6	**Professional Ethics:** Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practices.
PO7	**Life-long Learning:** Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.
PO8	**Project management and finance:** Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO9	**Communication Efficacy:** Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
PO10	**Societal and Environmental Concern:** Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practices.
PO11	**Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.
PO12	**Innovation and Entrepreneurship**

	Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.

Program Specific Objective (PSO)

PSO1:

The ability to develop and apply computer based application of varying complexity and domains using standard practice.

PSO2:

Demonstrate the ability to use latest technology and tools in developing the software thus helping our product to be Employable and become Successful Entrepreneur.

LAB PLAN

Experiment No:	Week	Topic of coverage	CO Mapped
01	1	**Introduction :** (A)Introduction to graphics coordinates system and functions from Graphics.h (B) Creation of smiley like object using simple inbuilt graphic functions from graphics.h	1,2
02	1,2	**Output primitives & its Algorithms** Implementation of line generation using following algorithms A. A. DDA line B. Bresenhams line	2
03	2	**Output primitives & its Algorithms** Implementation of circle drawing A. Bresenhams circle B. Midpoint circle	2
04	3	**Output primitives & its Algorithms** Implementation of ellipse drawing using Midpoint Ellipse algorithm	2
05	3	**Output primitives & its Algorithms** Implementation of curve drawing • Bezier Curve	2

06	4	**Output primitives & its Algorithms** Implementation of filling algorithms A. Boundary fill B. Flood fill C. Scan line D. application of Circle drawing algos.	2
07	5	**2D Geometric Transformations & Clipping** Implementation of two dimensional transformations A. Translation, Rotation & Scaling B. Shear & Reflection	2
08	6	Implementation of clipping algorithms A. Cohen Sutherland Line clipping B. Midpoint Subdivision line clipping C. Sutherland Hodgeman Polygon Clipping	2
09	7	Implementation of 3D Transformations (only coordinates calculation)	3
10	8	Implementation of fractal generation A. Koch curve/Snowflake B. Sirepenski Triangle	3
11	9	Implementation of animation programs (using basic inbuilt Graphical functions)	3
12	10	Implementation of Basic Intensity Transformations A. Image negative B. Log transformation C. Power law Transformation	4
13	10,11	Implementation of Piecewise-Linear Transformation Functions A. Contrast Stretching B. Grey level Slicing C. Bit plane slicing	4
14	11,12	Implementation of histogram equalization A. Image histogram & histogram Equalization B. Image Subtraction C. Image averaging	4

Course Outcome, Programme Outcome and Program Specific Outcome Mapping:

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 11	PO 12	PSO1	PSO2
CO1	√	√					√	
CO2	√	√	√		√		√	
CO3	√	√	√		√		√	
CO4	√	√	√	√	√		√	

LAB Assignment / Assignment Marking Scheme

Sr.No	Marks	Remarks
01	10	On date of DOS & Good Presentation
02	08	After one week of DOS & Good Presentation
03	06	After two week of DOS
04	00	Late submission

Note:

1. Lab instructors are expected to provide a lab manual for reference.
2. Clear discussion of term work marks distribution has to be conducted with students.
3. No study experiment strictly.
4. Ask students to write an analysis/ conclusions based on experiment results and its relation with theoretical concepts.
5. Experiments write up must be checked by faculty on the following week and enter grade in grade sheet.

Suggestions by Group Advisor	

Mrs. Mona D. / Mr.Dashrath M. / Mrs. Dhanamma J.
Faculty In-Charge

Academic Year: 2018-2019

Subject Code	Subject Name	Theory	Practical		Theory	Practical/Oral	Tutorial	Total
MCAL 401	**Advanced Web Technology and Data Mining and Business Intelligence Lab (AWT and DMBI Lab)**	--	06	--	--	03	--	03

Subject Code	Subject Name	Examination Scheme							
		Theory Marks							
		Internal assessment			End Sem. Exam	Term Work	Practical	Oral	Total
		Test1		Avg. of 2 Tests					
MCAL 401	Advanced Web Technology and Data Mining and Business Intelligence Lab (AWT and DMBI Lab)	--	--	--	--	25	50	25	100

Faculty In charge: Meenakshi Garg

Email Id:, meenakshi.garg@ves.ac.in

Class: MCA IInd Year (SEM IV, Regulat Ist Shift)

Pre-requisite:

- Basic Knowledge of Object Oriented Programming concepts
- Basic Understanding of Database Systems

Reference Books:

1. SQL & PL / SQL for Oracle 11g Black Book P.S. Deshpande

2. Business Intelligence Guidebook: From Data Integration to Analytics" by Rick Sherman

Web References:

1. www.weka.org, www.oracle.comwww.pentahobi.com

Course Educational Objectives (CEO): At the end of the course, the students will be able to:

CEO2: Understand Business Intelligence and Data Mining techniques

CEO3: Prepare Business Intelligence applications using Web Technologies

Course Outcomes (CO)

CO2 : Apply Data warehousing and mining techniques.

CO3: Design and implement web enabled BI application for industry

Program Educational Objectives (PEOS)

A. To provide students with a solid foundation in the Computing concepts like mathematics, programming, data management, networking etc. This will further enable students to analyse, design and create solutions for any enterprise, national or global in multidisciplinary fields.

B. To inculcate in students a strong ethical and professional attitude which along with effective communication, managerial and teamwork skills will enable success in a broad social context.

C. To prepare the students to excel in academic environment and make them ready for productive employment through global education and to empower them to develop high end business and innovative skill.

D. To provide broad educational and research experience through interdisciplinary and industrial collaboration program.

Programme Outcomes (PO) :

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PO5	
PO6	**Professional Ethics:** Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practices.
PO7	**Life-long Learning:** Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.
PO8	**Project management and finance:**

	Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
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Program Specific Objective (PSO)

PSO1:

The ability to develop and apply computer based application of varying complexity and domains using standard practice.

PSO2:

Demonstrate the ability to use latest technology and tools in developing the software thus helping our product to be Employable and become Successful Entrepreneur.

LAB Plan:

Week	Experiment	Reference	Rubrics of Evaluator	CO mapping	Expected % attainment of CO
1,2,3,4	**Open Source BI Tools** Preparing Reports Preparing Dashboards Preparing Balanced ScoreCards Analysis of Reports	**2**	Concept Understanding/Completion of Lab exercise /Execution/viva /Documentation / any other suitable rubric	**CO3**	70%
5,67,8	**Data Warehousing using Oracle** Setting Up and Starting Warehouse Builder Introducing OWB Architecture and Configuration Defining Source Metadata Ensuring Data Quality Using Data Profiling Defining Staging Metadata and Mapping Tables Deriving Data Rules and Running Correction Mappings Defining a Relational Dimensional Model Handling Slowly Changing Dimensions **OLAP with Oracle** Analytical Queries Grouping Functions Windowing Functions RollUp and Cube	**1**	Concept Understanding/Completion of Lab exercise /Execution/viva /Documentation / any other suitable rubric	**CO2**	70%
9,10,11	**Data Mining Using Weka/R Miner** Introducing Weka/R Miner The Data Mining Process Using Classification Models Using Regression Models Using Clustering Models	**1**	Concept Understanding/Completion of Lab exercise /Execution/viva /Documentation / any other suitable rubric	**CO2**	70%

	Performing Market Basket Analysis Performing Anomaly Detection Deploying Data Mining Results				
12,13	**Mini Project** A Mini Projects based on Data Mining and Business Intelligence Techniques using advanced Web Technologies.	**1,2**	Concept Understanding/Completion of Lab exercise /Execution/viva /Documentation / any other suitable rubric	**CO1, CO2, CO3**	70%

Note:

1. **Lab instructors are expected to provide a lab manual for reference.**
2. **Clear discussion of term work marks distribution has to be conducted with student.**
3. **No study experiment strictly.**
4. **Ask students to write analysis/ conclusions based on experiment results and its relation with theoretical concepts.**
5. **Experiments write up must be checked by faculty on the following week and enter grade in grade sheet.**

Suggestions by Group Advisor	

CO – PO Mapping:

	PO1			**PO4**	**PO 5**	**PO6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO11**	**PO12**	**PSO1**	**PSO2**
CO2	√	√	√	√	√	---	√	√	√	---	--	--	√	√
CO3	√	√	√	√	√	---	√	√	√	---	---	√	√	√

Lab Assignment/ Assignment Marking Scheme:-

Sr.No	**Marks (10)**	**Remarks**
01	10	On date of DOS & Good Presentation
02	08	After one week of DOS & Good Presentation
03	06	After two week of DOS.

04	00	Late submission

Meenakshi G

(Faculty In Charge)

Vivekanand Education Society's Institute Of Technology

Department Of MCA

LABORATORY PLAN

Academic Year: 2017-2018[ODD]

Name of the Course : Lab I- JAVA Programming
Branch : MCA SEM IV (Regular First/ Second Shift)
Faculty In charge : Monali Rajput/Meenakshi Garg

Grading /Marking System

References:

1. The complete reference JAVA2, Herbert schildt. Tata McGraw Hill
2. Core Java for beginners, Sharanam Shah and vaishali shah, SPD
3. Struts 2 for beginners, Sharanam Shah and vaishali shah, SPD
4. Commercial web development using java 2.0, Ivan Byaross, BPB
5. Struts in Action, Donald Brown, Dreamteach press
6. Java Server Programming java EE6, Black book, Dreamtech press.
7. Core Servlets and Java Server Pages :Vol I: Core Technologies 2/e , Marty Hall and Larry Brown, Pearson Java EE 6 for Server Programming for professionals, Sharnam Shah and vaishali shah, SPD
8. Java 6 Programming, Black Book, Dreamtech Press.
9. Programming with Java A Primer, E.Balaguruswamy Tata McGraw Hill
10. XML Complete Reference, Tata McGraw Hill

Course Objective:

I. To prepare students to excel and succeed in industry / technical profession through global, rigorous education.

II. Excellence through application development.

III. To provide students with a solid foundation on Tools, Technology and Framework

Course Outcome(CO):

CO1 : Students will demonstrate a high degree of proficiency in programming enabling them for careers in software engineering with competencies to design, develop, implement and integrate software applications and computer systems.

CO2 : Students will develop confidence for self education and ability for life-long learning

CO3 : Develop Client/Server and Component based programming.

CO4 : Apply solid Object Oriented Design Principles

CO5 : Enable to implement Cutting Edge application that can perform well in mission critical application

Program Educational Objectives (PEO's)

A. To provide students with a solid foundation in the core engineering concepts like mathematics, programming, data management, networking etc. This will further enable students to analyse, design and create solutions for any enterprise, national or global in multidisciplinary fields.

B. To inculcate in students a strong ethical and professional attitude which along with effective communication, managerial and teamwork skills will enable success in a broad social context?

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D. To provide broad educational and research experience through interdisciplinary and industrial collaboration program.

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	Communication Efficacy: Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear Instructions.
PO10	**Societal and Environmental Concern:** Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to Professional computing practices.
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Program Specific Objective (PSO)

PSO1: The ability to develop and apply computer based application of varying complexity and domains using standard practice.

PSO2:Demonstrate the ability to use latest technology and tools in developing the software thus helping our product to be Employable and become Successful Entrepreneur.

LAB PLAN

Unit (Week)	Topic of coverage	CO Mapped	Referer t	
I **(1)**	**Introduction to JAVA** a) To display prime numbers between 1 to N. Accept N as command line argument. b) To implement a program to demonstrate method overloading. (Define class Shape and overload method area ( ) to calculate area of rectangle, triangle and circle.) c) To implement a menu driven program to perform complex number addition, multiplication, subtraction using constructors overloading. d) To implement a program to pass object as an argument.(Define class Distance and pass Distance object to method, Distance add(Distance, Distance) to find sum of distances) e) To implement a program to count no of objects created for a class using static variable and static method. f) To implement a program to demonstrate final variable and final Method.	CO1,CO2 ,CO4	1,2	

II **(1)**	**Program based on Array, Inheritance and Wrapper classes** **A) Arrays:** a) To implement a menu driven program to find Transpose of a Matrix and Matrix multiplication. b) To implement a program to sort an array by passing array as an argument to method sort (). **B) Strings:** a) To implement a program to sort Strings in alphabetic order. b) To implement a program to demonstrate basic in-built method used in String Class. **C) Wrapper classes:** a) To implement a program a menu driven program for auto boxing and unboxing **D) Inheritance and Abstract class:** a) Create Super Class Student and two sub class of it, Graduate and Under Graduate. The members of the Student are name, id, grade, age and address and at least one method: boolean method IsPassed which takes in the parameter integer grade (0-100).The two sub classes override the method, for UG its 35% for passing and for PG its 45% as passing grade. b) Patient Class, which inherits from the Person class and you also require money class. the patient class has following field to store: A variable to store Patient no, Hospital no., Date of joining, address and medical fees. Constructor overloading to initialize all these variable. Methods are to set the Hospital No., Date of Joining and Address, and a method to calculate the medical fees to which the money object is passed as parameter. It returns the basic fees of the patient. c) To implement Dynamic Method Dispatch in Java using Abstract Class to find the area of various shape: Rectangle Circle Ellipse Square and Triangle.	CO1,CO2 ,CO4		

III **(2)**	**Program on packages and Interfaces** **A) Packages:** To implement a program to demonstrate the access specifies availability in different scenario in packages **B) Interfaces :** To implement a program to demonstrate interface: Create a interface for ACCOUNT with following operation: Deposit, Withdraw, Open, Close account. And Define classes CURRENT and SAVING which implement this interface.	CO1,CO2 ,CO4		
IV	**Generics,Collections and Lambda Expression** **Generics** **A.** implement bounded types (extend superclass) with generics **B.** implement bounded types (implements an interface) with generics **Collections** Implement any three collection classes **Lambda Expressions** perform addition, subtraction, multiplication as well as division using Lambda Expression	CO1,CO2 ,CO4		
V	**Exception Handling:** a) To implement a program to demonstrate Exceptions for Negative Array Size and Divide By Zero etc. b) To implement a program to demonstrate NumberFormatException : Enter Roll No, Name, Marks and Subject from command line and calculate percentage. c) To implement a program to implement nested try , multiply catch and finally. d) To implement a program to create user define exception. Create class Bank and define methods open (), deposit() and withdraw() with minimum balance 500. Create an exception Payoutofbounds and fire exceptio	CO1,CO2 ,CO4		

VI	**Multithreading** a) To implement a program to demonstrate multi-threading: even numbers between 1to 100, Prime Numbers between 1 to 100 and Fibonacci Series. b) To implement a program to demonstrate Thread Priority in above program. c) To implement Multi-threaded Producer Consumer Application.	CO1,CO2 ,CO4		
VII **(3)**	**File Handling** a) To implement program using console based IO using character and byte stream b) To implement a program to store the detail of employee in file using file reader and writer class/File Input Stream and Output stream. c) To implement a program on buffered Reader/Writer d) To demonstrate Object serialization and De serialization.	CO1,CO2 ,CO4		
VIII	**Program based on Applets & Swings** **<u>Applets</u>** a) To design an applet to display shapes like: traffic signal, Ashok Chakra, Indian flag. b) Develop applet with the use of Containers, Event handling, Adapter classes, Layout manager and Components c) To demonstrate JApplet. **<u>Swings</u>** a) To design a paint application in swing component. b) To design a form using Swings Component for Movie Ticket Booking application.	CO1,CO2 ,CO3,CO 4		

IX	**Database Programming** a) To implement an online Shopping Cart application using swings and JDBC Type 1 Driver b) To implement a program using JDBC Type 4 driver and mysql connector. **Note: Cover all the database Operations**	CO1,CO2,CO4,CO5		
X (5)	**Web Development using Servlets** a) To design a simple web-based interface to a currency converter application. The interface should consist of a title, suitable instructions, and a form for entering the amount to be converted and an optional currency rate. Use text fields for entering the amount and rate. Use the POST method to submit the form. b) To implement a program to count the no of visits made to the site using cookies in servlet. c) To implement a program for Session management in servlet where the session in maintain under username. d) To implement a sample program to handle post method in servlet.	CO1,CO2,CO3,CO4		
XI (4)	**Web Development using JSP** a) To design a form and use of JSP Scripting Element and JSP Directive b) To implement error and error Objects c) To implement a program to create a Visitor Log that reports the IP Address of each User, and the time they visited the page. d) To implement a program for Session management in JSP for shopping cart application	CO1,CO2,CO3,CO4		
XII	**Introduction to Spring Frameworks** To implement basic program on Spring Framework	CO1,CO2,CO3,CO4,CO5		

Objective(PSO):

	Programme Outcome(PO)						Program Specific Objective(PSO)	
	PO1	PO 3	PO 5	PO7	PO11	PO12	PSO1	PSO2
CO1		√		√	√	√	√	
CO2				√		√		
CO3		√	√				√	√
CO4	√						√	
CO5		√	√				√	√

LAB Assignment / Assignment Marking Scheme

Sr.No	Marks	Remarks
01	10	On date of DOS & Good Presentation
02	08	After one week of DOS & Good Presentation
03	06	After two week of DOS
04	00	Late submission

Meenakshi G

Faculty In-charge

{Monali Rajput/Meenakshi Garg}

Vivekanand Education Society's Institute of Technology
Department Of MCA
Lecture Plan
Academic Year: 2016-17(EVEN Semester)

Name of the Course: Financial Accounting and Management **Branch** : MCA (Sem-II, Regular I Shift)
Faculty In charge: Mr. Sunny Nahar **Email** : sunny.nahar@ves.ac.in

Grading /Marking System

Subject Code	Subject Name	Credits
MCA204	**Financial Accounting and Management**	**4**

Subject Code	Subject Name	Teaching Scheme			Credit Assigne			
		Theory	Pract.	Tut.	Theory	TW	Tut.	Total
MCA204	Financial Accounting and Management	4	-	-	4	-	-	4

Subject Code	Subject Name							
MCA204	Financial Accounting and Management	Theory Marks				TW	Pract	Oral	Total
		Internal Assessment			End Semester Exam				
		Test1 (T1) 20	Test2 (T2) 20	Average of T1 & T2 20	80	-	-	-	100

Reference:

1. Dr. Kapil Jain, Prof. Rashmi Somani, **"Accounting for Managers"**, Dreamtech Press, 201
2. S N Maheshwari, **"Accounting for Management"**, Vikas Publishing, 3rd edition
3. Prasanna Chandra, **"Financial Management Theory and Practices"**, TMH, 9th edition
4. Weygandt, Himmel, Kiesco, **"Accounting Principles",** 12th Edition,Wiley Publication.
5. Khan & Jain, **"Financial Management",** Mc Graw Hill
6. Siddiqui S.A. Siddiqui,**"Managerial Economics & Financial Analysis",** A.S. New Age.
7. V Sharan,**"Fundamentals of Financial Management",** Pearson Education.

Pre-requisites:

Some basic knowledge of accounting and good mathematical skills is recommended.

Course Objectives:

I. Introduce the principles, concepts, and applications of financial accounting and management.
II. Explore, and use the accounting concepts emphasizing how financial statements communicate information about the business corporation's performance and position for users internal and external to management.
III. To introduce the underlying framework and concepts of Financial Accounting and Management and how these fit into the current global business scenario.

Course Outcomes:

CO1: To use accounting functions as an information development and communication system that supports economic decision making and provides value to entities and society.
CO2: Preparation of financial statements and related information and apply analytical tools in making both business and financial decisions.
CO3: To analyze the impact of accounting system on several business functions and managers' decision making.
CO4: To analyze and use financial statements; prepare budgets and investment options; assess risks and the rewards involved in firm's financial decisions.

Program Educational Objectives (PEOS)

A. To provide students with a solid foundation in the core engineering concepts like mathematics, programming, data management, networking etc. This will further enable students to analyse, design and create solutions for any enterprise, national or global in multidisciplinary fields.
B. To inculcate in students a strong ethical and professional attitude which along with effective communication, managerial and teamwork skills will enable success in a broad social context?
C. To prepare the students to excel in academic environment and make them ready for productive employment through global education and to empower them to develop high end business and innovative skill.
D. To provide broad educational and research experience through interdisciplinary and industrial collaboration program.

Programme Outcomes

PO	Description
PO1	**Computational Knowledge:** Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and Conceptualization of computing models from defined problems and requirements.
PO2	**Problem Analysis:** Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences And relevant domain disciplines.
PO3	**Design /Development of Solutions:** Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration For public health and safety, cultural, societal, and environmental considerations.
PO4	**Conduct investigations of complex Computing problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide Valid conclusions.
PO5	**Modern Tool Usage:** Create, select, adapt and apply appropriate techniques, resources, and modern computing Tools to complex computing activities, with an understanding of the limitations.
PO6	**Professional Ethics:** Understand and commit to professional ethics and cyber regulations, responsibilities, and Norms of professional computing practices.
PO7	**Life-long Learning:** Recognize the need, and have the ability, to engage in independent learning for continual Development

	as a computing professional.
PO8	**Project management and finance:** Demonstrate knowledge and understanding of t h e computing and management principles and apply these to one's own work, as a member and leader in a team, to Manage projects and in multidisciplinary environments.
PO9	**Communication Efficacy:** Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear Instructions.
PO10	**Societal and Environmental Concern:** Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to Professional computing practices.
PO11	**Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams and in Multidisciplinary environments.
PO12	**Innovation and Entrepreneurship** Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large

Program Specific Objective (PSO)

PSO1:
The ability to develop and apply computer based application of varying complexity and domains using standard practice.

PSO2:
Demonstrate the ability to use latest technology and tools in developing the software thus helping our product to be Employable and become Successful Entrepreneur.

Lecture Plan

Unit (Week)	Topics of Coverage	CO Mapping	Ref	Comment
1 (1,2,3)	**Introduction to Accounting**:– Principles, Concepts, Double entry system of accounting, introduction to journal, voucher, ledger; preparation of trial balance, final accounts , trading and profit and loss account and balance sheet**.(theory and numerical)** **Accounting Standards** - AS1, AS2, AS3,AS9(only Theory), IFRS (International Financial Reporting Standards)	CO1,CO2	1,4	
2 (4,5,6)	**Break-even Analysis**:-Concept of Break Even Point, Cost-Volume-Profit Analysis, Determination of Break Even Point, Margin of Safety and PV ratio, Impact of changes in Cost or selling price on BEP - Practical applications of Break-even Analysis. **Budgeting**: Budgeting–cash budget **(theory and numerical),** sales budget – flexible Budgets and master budgets (theory).	CO1,CO2	1,5,3	
3	**Financial Management**:–Meaning and scope, Objectives of time value of	CO1,C	5,2	

	money, goals of FM, profit vs. value maximization. **Leverages** operating, financial, composite.; cost of equity, preference and equity shares, bonds and debentures, weighted average cost of capital, capital gearing fundamentals	O2		
4 (9,10,11)	**Tools and Techniques for Financial Statement Analysis** - **Ratio Analysis** Classification of Ratios Short term solvency and long term solvency – Profitability ratios - Analysis and Interpretation of Financial Statements through ratios of Liquidity, Solvency and Profitability. **Fund Flow Statement** - Meaning, Importance, Statement of changes in working capital and statement of Sources and application of funds. **Cash flow Analysis:-** cash flow Statements: Preparation, Analysis and interpretation, (only theory)	CO1,CO2,CO3,CO4	1,6	
5 (12,13)	**Capital Budgeting**:- Capital and its significance, Types of Capital, Estimation of Fixed and Working capital requirements, Methods and sources of raising capital. Capital Budgeting: features of capital budgeting proposals, Methods of Capital Budgeting: Payback Method; purpose of capital budgeting, capital budgeting process, and types of capital investment decisions. Accounting Rate of Return (ARR) and Net Present Value Method **(simple numerical problems on these).**	CO1,CO2,CO3,CO4	5,7	

Course Outcome and Programme Outcome Mapping

	PO 2	PO 6	PO 7	PO 8	PSO1	PSO2
CO1	√	--	√	√	--	√
CO2	√	--	√	√	--	√
CO3	--	√	√	√	--	√
CO4	--	√	√	√	--	√

Test Schedule

Syllabus for test	Test Week	Week of Correction	CO Mapped	References
Test-1 (Units1,2)	Feb(4th week)	Mar(1stWeek)	CO1,CO2	1,3,4,5
Test-2 (Units 4,5)	Apr.(2nd week)	Apr(3rd week)	CO1,CO2,CO3,CO4	1,5,6,7

Sunny Nahar

Faculty In-Charge

Sunny Nahar

V.E.S. Institute of Technology, Collector Colony,

Chembur, Mumbai

Department of M.C.A.

o	Contents	Date of performance	Date of submission	Marks	Sign
	Quality standards	29/8/19	3/10/19	7	
	System requirement and specification	29/9/19	5/10/19	8	
	Scheduling tools and WBS	10/9/19	17/10/19	9	
	Resource management	17/10/19	13/11/19	9	
	Cost estimation	03/11/19	13/11/19	9	

13/11/19

8.4/10

Since 1962

Vivekanand Education Society's Institute Of Technology

Department of MCA

Sr.No	Experiment	Date	Marks	Sign
1	**Introduction to Packet Tracer** 1.Study of Packet Tracer software interface 2.Basic Configuration on console by setting password a. Basic Router configuration with password b. Configure Switch with MOTD 3.Connect multiple PC with hub and show ARP table of the PC	31/01/19	8	
2	**Assigning Address** 1.AssignIPv6 addresses using autoconfig 2.Subnetting /notation(Theory)	14/02/19	8	
3	**Routing Techniques** 1.Configure network with Static and default routing 2.Configure network for dynamic routing using the following protocols a.RIPv1 b.RIPV2 c.EIGRP (Use Serial DCE) d. OSPF	07/03/19	8	
4	**Dynamic Configuration** 1.DHCP 2 .Access List Configuration 3.Configure NAT for Static and Dynamic routing 4.configuration of PAT	20/04/19	9	
5	**Authentication And Configuration of VLAN** 1.Configuration of PPPoE a.PAP b.CHAP 2.Create Dial-up network using WAN cloud 3.Configure VLANs on the router 4. Design InterVLAN, Router on stick, multilayer VLAN. 5. Configure Spanning tree.	20/04/19	7	
6	**Network Protocol** 1.Configure servers a.Telnet b. DNS c. HTTP d. SMTP e. FTP Servers f. SNMP	20/04/19	7	
7	Mini Project			

	Name of Experiment	DOP	DOS	Marks	Page No	Sign
1	A) Create a Quiz application and display the grades. B) Design a phonegap application to UI using HTML5 form. C) Create a form with fields username,password,country,email id and apply foll.validations on it.Show all the details on the next card i) Check that no field is left vacant. ii)Check password for maximum 8 characters. iii) Check email-id for proper format.	18/7/17 20/7/17	21/7/17	8	1	
1	A) Program to display device specification B) Create a informational Header Section, Article and footer that contains information regarding any super shop . Add a button that allow user to show/hide the footer.	24/7/17	27/7/17	8	10	
2	Program to Display Connection Info.	28/7/17	28/7/17	8	13	
3	A) Program to demonstrate Notifications: alert, beep, vibrate, Confirmation box. B) Create an application to design simple calculator to perform addition, substation, multiplication and division. Show alert message for divide by zero error.	31/7/17 3/8/17	4/8/17		16	
4	A) Program to demonstrate contacts API 1. Create contact 2. Search contact 3. Display contact 4. Cloning contact B) Program to design user interface for contacts API. 1. Create a contact with fields: Name, Surname, Alternative contact, email id, address. 2. Search the contact on basis of email and display information pertaining to it.	7/8/17 10/8/17	11/8/17	8	24	
5	A) Program to demonstrate Events API : Application Status Events, Network Status Events, Button Events B) Crete an Alert which shows battery status and check whether the device is plugged to a charger or not.	14/8/17 24/8/17	31/8/17	8	32	

A) Program to demonstrate Accelerometer API: Static and Dynamic. B) Write an application which will capture device acceleration dynamically after 6 sec with a timestamp value.	1/9/17 4/9/17	7/9/17	8	40	
A) Program a program to perform following file operations a) Write into a file b) Read from a file c) Append to a file d) Delete a file. B) Using file API perform the following a) Create a file b) Display metadata of the created file	11/9/17 14/9/17	15/9/17	8	48	
Program for demonstrate Capture API: a) Capturing the image b) Capturing the audio c) Capturing the video Save the file and display their name with full path.	18/9/17 21/9/17	22/9/17	8	55	
A) Program to create a UI to store student's information in the database and on click of Register button display the stored information in HTML table format. B) Write a PhoneGap application to allow student to enter fields like name, phone no., e-mail, gender and skills. Display information on the second screen using local storage.	25/9/17 28/9/17	9/10/17	8	60	Rdwy 27/10/17
A) Write an application which will get 4 subject marks from user (input.html) and display this information (result .html) using meter element of HTML5 B) Write an application to increase and decrease the volume using progress bar.	12/10/17	13/10/17	8	66	
MINI PROJECT	16/10/17	24/10/17	8	72	
Average Grade				8	

V.E.S. Institute of Technology, Collector Colony, Chembur,
Mumbai, Maharashtra 400047
Department of M.C.A

INDEX

Sr. No.	Content	Date of Preparation	Date of Submission	Marks	Sign
1	Programming Basics (with C language)	16/8/2016	23/8/2016	9	
2	Introduction to C++	23/8/2016	26/8/2016	9	
3	Classes & Objects	23/8/2016	26/8/2016	9	
4	Passing parameters to functions	26/8/2016	30/8/2016	8	
5	Function Overloading	26/8/2016	30/8/2016	9	
6	Objects as function parameters	26/8/2016	30/8/2016	8	
7	Static data member & function	30/8/2016	16/9/2016	9	
8	Constant data member & function	16/8/2016	27/9/2016	9	
9	Inline function	30/8/2016	16/9/2016	9	
10	Friend function	30/8/2016	16/9/2016	9	
11	Constructors	16/9/2016	27/9/2016	9	
12	Destructor	27/9/2016	4/10/2016	7	
13	Operator Overloading	27/9/2016	4/10/2016	8	
14	Data (Type) Conversion	4/10/2016	18/10/2016	8	
15	Pointers	4/10/2016	18/10/2016	8	
16	Inheritance	18/10/2016	21/10/2016	8	
17	Virtual Base class	18/10/2016	21/10/2016	8	
18	Virtual Function	21/10/2016	25/10/2016	9	
19	Virtual Destructor	21/10/2016	25/10/2016	9	
20	Stream classes	25/10/2016	09/11/2016	9	
21	Exception Handling	25/10/2016	09/11/2016	8	
22	Templates	25/10/2016	09/11/2016	7	
23	Case study: Database connectivity using MySql	25/10/2016	09/11/2016	8	
24	Mini Project			8	

Final Grade	Instructor Signature
8.41	12/11/16

meenakshi garg <meenakshi.garg

Fwd: Mentor for Project

1 message

---------- Forwarded message ---------
From: **Shivkumar Goel** <shivkumar.goel@ves.ac.in>
Date: Tue, Jan 28, 2020 at 10:00 PM
Subject: Mentor for Project
To: <2019raj.kadam@ves.ac.in>, <2019pranav.chaudhari@ves.ac.in>, <2019harshabhishekvijay.shinde@ves.ac.in>, sahil kamble <2019sahil.kamble@ves.ac.in>, <2019aniket.yadav@ves.ac.in>, <2019krunal.rane@ves.ac.in>, <2019suryanshu.raj@ves.ac.in>, <2019santosh.sahani@ves.ac.in>, <2019abhinay.shukla@ves.ac.in>
Cc: Sunny Nahar <sunny.nahar@ves.ac.in>

Dear students!

Prof Sunny Nahar is your Mentor

You are required to meet with your mentor and discuss the topic of your project. In next phase, submit the synopsis and report the progress, according to your mentor's schedule. You are also required to work on Research Paper with the help /guidance of your mentor.

SN(Second Shift)

7	16	Raj Kadam	SN
	2	Pranav Chaudhari	
	43	Harshabhishek Vijay Shinde	

9	18	Sahil Kamble	SN
	58	Aniket Yadav	
	39	Krunal Rane	

17	36	Suryanshu Raj	SN
	40	Santosh Sahani	
	44	Abhinay Shukla	

Good Luck

With Regards,

Dr. Shiv Kumar Goel
Associate Professor / Deputy HOD, MCA Department
VES Institute Of Technology (VESIT) , Chembur Mumbai
Mob:- +91-9819150326/8108736209

--
With Regards,

Sunny Nahar
Department of MCA
VES Institute Of Technology (VESIT),
Hashu Advani Memorial Complex,
Collectors' Colony, Chembur - 400 074

Mumbai, India
Contact No. : (+91) 9699904491

Semester V

FAKE NEWS DETECTION

SYNOPSIS

Group Member Names: SHRADDHA RAI [50]
SUDHIR [56]
YASH [32]

Objective:

To detect fake news and notify users whether news is true or fake

Problem Statement:

Fake news has been a hot topic in the last few years in the form of Troll Farms and these Hoax News attempt to create public unrest like Lynching, Cyber Mobbing, Subvert and influence the public perceptions using social media platforms.

Proposed System:

This system is develop to solve the problems of fake news by detecting it using ML techniques

The solution will detect Fake news like Offensive Text-(Comment, Post, Feeds), across the Social Media websites using keywords

We can search by putting some type of news and it will detect whether that news is fake or true. If fake it will display as fake or else true.

Admin: It can view the number of news searched at the end of day.

Software Requirements: -

Programming Language	: Python with django,HTML,CSS,Bootstrap
Backend Database	: MySQL
Browser	: Internet Explorer/Google Chrome

Hardware Requirements: -

Pentium processor	: 512 MHZ
RAM Capacity	: 2GB
Memory	: 20GB

Shraddha Rai

Sudhir NAYAK

Yash NAIK

VES Institute of Technology
Dept of MCA
Project Reporting Sheet
Class- SYMCA
Academic Year – 2019-20

lno	Name	Date	Sign	Remarks
2	Yash Naik	26/02/2020		Topic Selected
	Sudhir NAYAK	26/02/2020		1st 2
	Shraddha Rai	5/03/2020		
	Sudhir NAYAK	6/03/2020		Synopsis
	Shraddha Rai	6/03/2020		Synopsis

VES Institute of Technology
Dept of MCA
Project Reporting Sheet
Class- MCA3B
Academic Year – 2018-19
Project Title Sentiment Analysis on Twitter

Name	Date	Sign	Remarks
Hrishikesh Acharya	06/08/19		Synopsis submitted
Akshata Bahulekar	06/08/19		Synopsis
Hrishikesh Acharya	09/08/19		Synopsis Submitted
Akshata L Bahulekar	09/08/19		Synopsis "
Karishma Chavan	09/08/19		Synopsis "

Prof Meenakshi Garg

Project On

SENTIMENT ANAYSIS

By

Hrishikesh Acharya (01),

Akshata L Bahulekar (04),

Karishma Chavan (06)

Introduction

Social Media websites have emerged as one of the platform to raise user's opinions and influence the way any business is commercialized. Opinion of people matters a lot to analyse how the propagation of information impacts the lives in a large-scale network like Twitter. Sentiment analysis of the tweets determine the popularity and inclination of vast population towards specific topic, item or entity. These days, the applications of such analysis can be easily observed during public elections, movie promotions and many other fields. The primary aim is to provide a method for analysing sentiment score in noisy twitter streams. This paper reports on the design of a sentiment analysis, extracting vast number of tweets. Results classify user's perception via tweets into positive or negative.

Platform and Technologies

There are different technologies and tools implemented in the project.

Apache Spark: It is an open source lightning fast cluster computing platform to retrieve streaming data and forwarding to storage system like HDFS, Database Server. It is built on top of Map Reduce and can integrate well with other Apache Software.

Twitter: It is an online social media platform which is suitable for our use case due to number of factors. Firstly the amount of relevant data is much larger for twitter as compared to blogs or review websites. Secondly, responses on twitter is general and prompt.

meenakshi garg <meenakshi.gar

Fwd: SEM 6 PROJECT MENTOR

1 message

---------- Forwarded message ---------
From: **Mona Deshmukh** <mona.deshmukh@ves.ac.in>
Date: Tue, Jan 29, 2019 at 1:42 PM
Subject: SEM 6 PROJECT MENTOR
To: <2016ashish.pal@ves.ac.in>, <2016parth.garge@ves.ac.in>, <2016sanketpatil@ves.ac.in>, <2016govindraj.manigandan@ves.ac.in>, <2016pooja.patil@ves.ac.in>, <2016adam.ansari@ves.ac.in>, <2016dnyaneshwari.chaudhari@ves.ac.in>, Sunny Nahar <sunny.nahar@ves.ac.in>

Roll No	Name	Internship (Yes/No)	Firm Name	Email	Mobile No	Guide
03A	BAHADUR PAL ASHISH BAJARANG	Yes	Adapty	2016ashish.pal@	9594139073	SUNNY N
13A	GARGE PARTH	Yes	Adapty	2016parth.garge	8104533330	SUNNY N
36A	PATIL SANKET NARENDRA	Yes	Adapty	2016sanketpatil@	9870017646	SUNNY N
26A	MANIGANDAN GOVINDRAJ	No	UNPLACED	2016govindraj.m ac.in	8828354149	SUNNY N
35A	PATIL POOJA DILIP	No	UNPLACED	2016pooja.patil@	8082315098	SUNNY N
01A	ANSARI ADAM ABRAR	Yes	Yohaat	2016adam.ansar	9833013549	SUNNY N
07A	CHAUDHA DNYANESHWAF PRABHAKAR	Yes	Yohaat	2016dnyaneshw ves.ac.in	9619408527	SUNNY N

Thanks and Regards,
Ms.Mona Deshmukh
Vivekanand Education Institute of Technology
chembur,Mumbai

Go Green , Please consider the environment before printing this email.

--
With Regards,

Sunny Nahar
Department of MCA
VES Institute Of Technology (VESIT),
Hashu Advani Memorial Complex,
Collectors' Colony, Chembur - 400 074
Mumbai, India
Contact No. : (+91) 9699904491

Vivekanand Education Society's Institute of Technology

Department Of MCA

H.A.M.C Collectors Colony, Chembur, Mumbai:-74

Sheet for Mini project viva (MCAPR301) examination for MCA (Sem III CBCS) B Division

Roll No	Name	TW (25)	Oral (25)	Total (50)
34	Vaishak Nambiar	20	20	40
50	Onkar Shelkar	20	20	40
54	Shailendra Singh	20	20	40

Signature of external Examiner/Evaluator: Mona Rebhmuller

Signature of internal Examiner: Ameya Penkar

Vivekanand Education Society's Institute of Technology

Department Of MCA

H.A.M.C Collectors Colony, Chembur, Mumbai-74

on Sheet for Mini Project Viva (MCAPR501) Examination for MCA (Sem V CBCS) B Division

ll	Group Members Name	Project Title	Evaluators Comment
3	Ashish Pal	Online Car Rental	Project is good. But Not innovative & new Research paper done. (Survey paper)
3	Parth Gaage		
58	Sudhakar Yadav		
54	Hitesh S. Singh	Patient-Portal System	Good, Simple but easy to use & under stand. Research paper done. (Survey paper)
59	Umakant Yadav		
46	Akshay Saleskar		

e & Signature of external Examiner/Evaluator: Ruchi Rautela

e & Signature of internal Examiner: Monali Rajput

Vivekanand Education Society's Institute of Technology

Department Of MCA

H.A.M.C Collectors Colony, Chembur, Mumbai:-74

Evaluation Sheet for Mini Project Viva (MCAPR501) Examination for MCA (Sem V CBCS) B Division

No.	Roll No.	Group Members Name	Project Title	Evaluators Comment
	04 30 49	Loveena Bansal Pawandeep Singh Nanda Shaikh Maroof	Emergency On The Go	Project is good But not fit for the said Title. Can be used in another scenario Paper Drafted but not Published.
	05 17 50	Ashish Bhalerao Chandan Gupta Swastik Sharma	Android voting Appli-cation	Not a Proper Project having functionality of Voting. Needs to improve lot.

Signature of external Examiner/Evaluator:

Signature of internal Examiner:

Sem V (Morning)

Vivekanand Education Society's Institute of Technology

Department Of MCA

H.A.M.C Collectors Colony, Chembur, Mumbai:-74

Evaluation Sheet for Mini Project Viva (MCAPR501) Examination for MCA (Sem V CBCS) A Division

Roll No.	Group Members Name	Project Title	Evaluators Comment
41 44 46	Sanket Patil Abhijeet Salunkhe Komal Shah	Home Automation	This project is good can be extended for real time.
05 51 56	Nikhil Bagdia Atul Singh Rohit Talreja	Mobile Locator.	Good. It can be improved further

Name & Signature of external Examiner/Evaluator: Dhanamma Jagli 24/9/18

Name & Signature of internal Examiner: Rohini Temkar 24/9/18

Vivekanand Education Society's Institute of Technology

Department Of MCA

H.A.M.C Collectors Colony, Chembur, Mumbai:-74

Evaluation Sheet for Summer Project Viva Examination for MCA (First Year CBCS) Batch- B

Sr.No.	Project Title	Evaluator's Comment
1	Order processing System	Basic Desktop application Paper not published format is O.k.
2	Computerised Examination System.	Online Test Website. Good Project. Validation checks Ok. Paper not published.
3		
4		
5		

Name & Signature of external Examiner: 25/09/17

Name & Signature of internal Examiner: 25/9/17

Evaluation Sheet for Summer Project Viva Examination for MCA (Second Year CBCS) Batch- B

Sr.No.	Project Title	Evaluator's Comment
1	Know Your Result	Good Project. Need a bit of more functionality as it is based on static object i.e pdf's. Research paper done.
2	Institute management System.	Not complete. Error msgs not up to the mark. Reports not complete. Survey paper done.
3	GST billing system	Good Project. Have Changes & future enhancements. Survey Paper done.
4	Court Management System.	Project Not user friendly Have Lots of specification that needs to be explained Survey paper done.
5	Student Portal	Good Project. Needs improvement in validation Checks. Require proper interactive messages. Survey paper done

Name & Signature of external Examiner:

Name & Signature of internal Examiner:

25/09/17

25/9/17

Vivekanand Education Society's Institute of Technology
Department Of MCA
H.A.M.C Collectors Colony, Chembur, Mumbai:-74

Evaluation Sheet for Summer Project Viva Examination for MCA (First Year CBGS) Batch Regular Fresh SY

SLNo.	Roll No.	Group Members Name	Project Title	Evaluators Comment
1.	10 28 46	Lorraine Dsouza Apoorva Pathe Lalita Slinde	Home Automation using Arduino via Wi-fi Module	+Research paper not Published + Very good project
2.	1 44 26	Vinita Ahuja (Left college) Pankaj Sharma Omkar Joshi	E-Shopping and Library	+ Good paper & nice project, Can be enhanced.
3.	3 18 24	Ameya Anderekar Shubhamkhairnar Digvijay Bhasaye	Android Joystick Application	Very good project- paper written but not published

Name & Signature of external Examiner/Evaluator: 21/09/16

Name & Signature of internal Examiner: 21/09/16

Evaluation Sheet for Summer Project Viva Examination for MCA (First Year CBGS) Batch Regular ~~Fresh~~ Lift

SLNo.	Roll No.	Group Members Name	Project Title	Evaluators Comment
1.	23 30 56	NEHA MENON DHANASHRI PHATAK VENKATESH V.	ON THE SPOT	- Paper ~~was~~ not Published - Project is v. good & usable. Functionality & GUI is good. - Innovative Idea
2.	37 50 59	Ranjani Ram Stella Jenifer Nisha Yadav	AatmRaksha	→ Paper is not Published → Project is good but similar kind of App is available so not much innovative
3	49 48 54	Vinay Singh Suraj Singh Sheel Tikku	Lukit	- Paper is not Published - Project ~~idea~~ is good can be enhanced. - More scope of improvement.

Name & Signature of external Examiner/Evaluator: Shankar Cmf

Name & Signature of internal Examiner: 21.09.16

meenakshi garg <meenakshi.garg

Summer Project review and Evaluation Schedule

2 messages

Shivkumar Goel <shivkumar.goel@ves.ac.in> Wed, Sep 18, 2019 at 4:04 PM
To: 2018_mca_e@ves.ac.in, 2017_mca_e@ves.ac.in, 2017_mca_m@ves.ac.in
Cc: Master of Computer Application <mca@ves.ac.in>

Dear Students

Summer Project Review and Evaluation will be held as per following schedule

Summer Project review 20/09/2019 (Friday).
Summer Project Evaluation 21/09/2019 (Saturday).

Students (Group) has to bring the CD (Project Documentation, PPT, Code) and put the name of Project , students name and year on Top of CD at the time of evaluation.

Students are required to be present in following labs according to their respective mentors for review and Evaluation on respective dates as given above.

Mentor	Review Time & Evaluation Time	
Prof. Rohini Temkar	**09:00** A.M	
Prof. Dasharath Mane	**09:00** A.M	**Lab 110**
Prof. Sangeeta Oswal	**09:00** A.M	
Prof. Dhanamma Jagli	**09:00** A.M	

Mentor	Review Time & Evaluation Time	
Prof. Geocy Sheijy	**11:00** A.M	
Prof. Ramesh Solanki	**09:00** A.M	
Prof. Ameya Parkar	**09:00** A.M	
Prof. Indira B	**11:30** A.M	
Prof. Ruchi Rautela	**11:30** A.M	**Lab 111**

Mentor	Review Time & Evaluation Time	Lab B12
Prof. Vaishali Gatty	**11:30** A.M	
Prof. Monali Rajput	**11:30** A.M	

Mentor	Review Time & Evaluation Time	
Prof. Nishi Tiku	**11:00** A.M	
Prof. Shiv Kumar Goel	**11:00** A.M	
Prof. Mona Deshmukh	**09:00** A.M	**Lab B14**
Prof. Sunny Nahar	**11:30** A.M	
Prof. Meenakshi Garg	**11:00** A.M	

Good Luck...

Dr. Shiv Kumar Goel
Associate Professor / Deputy HOD, MCA Department
VES Institute Of Technology (VESIT) , Chembur
Mumbai

Mob:- +91-9819150326/8108736209

Sunny Nahar <sunny.nahar@ves.ac.in> Mon, Oct 25, 2021 at 3:02 PM
To: meenakshi garg <meenakshi.garg@ves.ac.in>

[Quoted text hidden]

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With Regards,

Sunny Nahar
Department of MCA
VES Institute Of Technology (VESIT),
Hashu Advani Memorial Complex,
Collectors' Colony, Chembur - 400 074
Mumbai, India
Contact No. : (+91) 9699904491