

S. E. S. Shikshan Maharshi Dadasaheb Limaye College, Kalamboli
Art's, Commerce & Science
Academic Calendar - 2020-21

First Term from 07th August, 2020 to 31st December, 2020.		
1	Opening of the College	7 th August, 2020
2	Library Day	12 th August 2020
3	College Foundation Day	13 th August 2020
4	Celebration of the Independence Day	15 th August 2020
5	Ganesh Festival	22 nd August, 2020
6	Teacher's Day	5 th September 2020
7	N. S. S. Day	14 th September, 2020
8	Gandhi Jayanti (Blood Donation Camp)	02 nd October 2020
9	Vachan Prerna Divas	15 th October 2020
10	Diwali Vacation	12 th November 2020 to 18 th November, 2020
11	Sanvidhan Din	26 th November 2020
12	AIDS Awareness Day	01 st December 2020
13	First Term Exam	2 nd Week of December 2020
14	First Term End	31 st December, 2020
Second Term From 1st January, 2021 to 31st May, 2021		
1	Reopening of the College	1 st January, 2021
2	Geography Day	14 th January 2021
3	Celebration of Republic Day	26 th January 2021
4	N. S. S. Camp	2 nd Week Of February 2021
5	Marathi Bhasha Din	27 th February 2021
6	World Women Day	8 th March 2021
7	Annual Sports & Prize Distribution	15 th March 2021
8	Dr. Ambedkar Jayanti	14 th April 2021
9	Second Term Exam	End of April
10	Maharashtra Din	1 st May 2021
11	Examination Result	End of May
12	Second Term End	31 st May 2021
13	Summer Vacation	1 st June 2021 to 13 th June 2021

Signature
Co-ordinator - IQAC
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist - Raigad.



Signature
PRINCIPAL
SES'S S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal.- Panvel, Dist. - Raigad.



SHIKSHANMAHARSHI DADASAHEB LIMAYE COLLEGE, KALAMBOLI,
ART'S FACULTY TIME TABLE - 2020-21

TIME	CLASS	MON	TUES	WED	THURS	FRI	SAT
8.00 AM TO 8.50 AM 1	F.Y.BA.	F.C. MAHAJAN P.P.	F.C. MAHAJAN P.P.	F.C. MAHAJAN P.P.	ECO SALUNKHE	GEO. MAHAJAN P.P.	GEO. MAHAJAN P.P.
	S.Y.BA.	ECO II MAHAJAN	ECO II MAHAJAN	ECO III SALUNKHE	MARATHI II JADHAVAR	ADVT SALUNKHE	ADVT SALUNKHE
	T.Y.MAR	PAPER VII BANSODE	PAPER VII BANSODE	PAPER VII BANSODE	PAPER VII BANSODE	PAPER VIII BANSODE	PAPER VIII BANSODE
	T.Y.ECO	PAPER VII SALUNKHE	PAPER VII SALUNKHE	PAPER IV MAHAJAN	PAPER IV MAHAJAN	PAPER V MAHAJAN	PAPER V MAHAJAN
	T.Y.GEO	PAPER V P.P.MALI	PAPER V P.P.MALI	PAPER V P.P.MALI	PAPER V P.P.MALI	PAPER VI P.P.MALI	PAPER VIII P.P.MALI
	T.Y.HIS	PAPER V JADHAV	PAPER V JADHAV	PAPER V JADHAV	PAPER V JADHAV	PAPER VII JADHAV	PAPER VII JADHAV
9.00 AM TO 9.50 AM 2	F.Y.BA.	MARATHI I JADHAVAR	MARATHI I JADHAVAR	MARATHI I JADHAVAR	MARATHI I JADHAVAR	ECO SALUNKHE	ECO SALUNKHE
	S.Y.BA.	GEO II P.P.MAHAJAN	GEO II P.P.MAHAJAN	HIS II JADHAV	GEO III P.P.MAHAJAN	HIS II JADHAV	HIS III GAIKWAD
	T.Y.MAR	PAPER VIII BANSODE	PAPER VIII BANSODE	PAPER IX BANSODE	PAPER IX BANSODE	PAPER IX BANSODE	PAPER VI JADHAVAR
	T.Y.ECO	PAPER IV MAHAJAN	PAPER VII SALUNKHE	PAPER VII SALUNKHE	PAPER IX SALUNKHE	PAPER V MAHAJAN	PAPER V MAHAJAN
	T.Y.GEO	PAPER VII P.P.MALI	PAPER VII P.P.MALI	PAPER IVP.P.MAHAJAN	PAPER VIII P.P.MALI	PAPER IVP.P.MAHAJAN	PAPER IV P.P.MAHAJAN
	T.Y.HIS	PAPER VII JADHAV	PAPER VII JADHAV	PAPER VI GAIKWAD	PAPER VI GAIKWAD	PAPER VI GAIKWAD	PAPER IX JADHAV



10:00 AM
TO 10:50 AM
3

F.Y.B.A.	MARATHI COM	MARATHI COM	HIS I JADHAV	MARATHI COM	HIS I JADHAV	HIS I JADHAV
S.Y.B.A.	MARATHI II JADHAVAR	F.C.II P.P.MAHAJAN	GEO III P.P.MAHAJAN	F.C.II P.P.MAHAJAN	MARATHI III BANSODE	MARATHI III BANSODE
T.Y.MAR		PAPER VI JADHAVAR	PAPER IV JADHAVAR	PAPER IV JADHAVAR	PAPER IV JADHAVAR	PAPER IV JADHAVAR
T.Y.ECO	PAPER IX SALUNKHE	PAPER VI MAHAJAN	PAPER VI MAHAJAN	PAPER VI MAHAJAN	PAPER IX SALUNKHE	PAPER VIII MAHAJAN
T.Y.GEO	PAPER VII P.P.MALI	PAPER VII P.P.MALI	PAPER VIII P.P.MALI	PAPER VI P.P.MALI	PAPER VI P.P.MALI	PAPER VIII P.P.MALI
T.Y.HIS	PAPER IV GAIKWAD	PAPER IV GAIKWAD	PAPER IV GAIKWAD	PAPER IV GAIKWAD	PAPER V GAIKWAD	PAPER V GAIKWAD

11:00 AM
TO 11:50 AM
4

F.Y.B.A.	ECO SALUNKHE	HIS I JADHAV	C.S.RAVAT	C.S.RAVAT	C.S.RAVAT	GEO. THIGALE
S.Y.B.A.	GEO III P.P.MAHAJAN	ADVT SALUNKHE	HIS III GAIKWAD	MARATHI III BANSODE	ECO II SALUNKHE	MARATHI II JADHAVAR
T.Y.MAR	PAPER V JADHAVAR	PAPER VI JADHAVAR	PAPER V JADHAVAR	PAPER V JADHAVAR	PAPER V JADHAVAR	
T.Y.ECO	PAPER VIII MAHAJAN	PAPER VIII MAHAJAN		PAPER VIII MAHAJAN	PAPER VIII MAHAJAN	
T.Y.GEO	PAPER IX P.P.MALI	PAPER IX P.P.MALI	PAPER IX P.P.MALI		PAPER IV P.P.MAHAJAN	
T.Y.HIS	PAPER V GAIKWAD	PAPER V GAIKWAD		PAPER IX JADHAV	PAPER IX JADHAV	

12.00 PM TO 12.50 PM 5	F.Y.BA.	C.S.RAVAT		MARATHI COM	GEO. P.P.MAHAJAN		
	S.Y.BA.	HIS II JADHAV	GEO II P.P.MAHAJAN	F.C.II P.P.MAHAJAN	HIS III GAIKWAD	ECO II MAHAJAN	ECO III SALUNKHE
	T.Y.MAR						
	T.Y.ECO						
	T.Y.GEO						
	T.Y. HIS						
01.00 PM TO 1.50 PM 6	F.Y.BA.						
	S.Y.BA.			ADVT SALUNKHE			
	T.Y.MAR						
	T.Y.ECO						
	T.Y.GEO						
	T.Y. HIS						

opm Mahajan
In charge of Time table Committee



Principal
Principal
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

SES SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE, KALAMBOLI

TIME TABLE 2020-21 DEPARTMENT OF MARATHI

NAME OF THE TEACHER :- Dr. Manisha N. Baneode

Sr. no	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	8.00am To 8.45am	Marathi VII	Marathi VII	Marathi VII	Marathi VII	Marathi VII	Marathi VII
2	8.45 am To 9.35 am	Marathi VII	Marathi VII	Marathi IX	Marathi IX	Marathi IX	-
3	9.30 am To 10.24 am	Marathi com	Marathi com	Marathi com	Marathi com	Marathi III	Marathi III
Recess 10.24 am To 10.55 am							
4	10.55 am To 11.43 am	-	-	-	Marathi III	-	-
5	11.43 am To 12.31 am	-	-	Marathi com	-	-	-

Paper No	Name of the Paper	Total weekly Workload
I	Marathi - Compulsory	04
II	Marathi Ancillary - II	03
VII	Linguistics & Marathi Grammar	04
VIII	Modern Marathi Literature	04
IX	Occupational Marathi	03
	Total	18

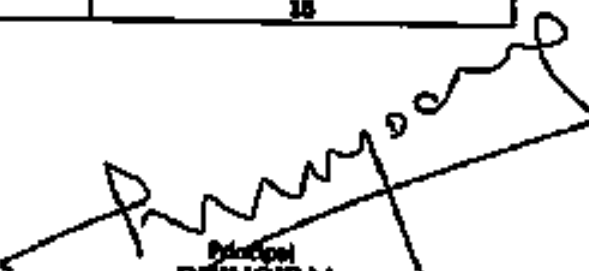
NAME OF THE TEACHER :- Dr. Ramesh B. Jadhav

Sr. no	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	8.00am To 8.45am	-	-	-	Marathi I	-	-
2	8.45 am To 9.35 am	Marathi - Opt	Marathi - Opt	Marathi - Opt	Marathi - Opt	-	-
3	9.30 am To 10.24 am	Marathi II	Marathi VI	Marathi IV	Marathi IV	Marathi IV	Marathi IV
4	10.55 am To 11.43 am	Marathi V	Marathi VI	Marathi V	Marathi V	Marathi V	Marathi II
5	11.43 am To 12.31 am	Marathi IV					

Paper No	Name of the Paper	Total weekly Workload
I	Marathi - Opt	04
II	Marathi Ancillary - II	03
VII	History of Modern Marathi Literature	04
VIII	Indian & Western Theories of Literature	04
IX	Literature & Society	03
	Total	18


Subject Teacher


Head of the Department


Principal
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Parnai, Dist : Raigad.

SES SHIKSHAN MAHARSHI DDASAHEB LIMAYE COLLEGE, KALAMBOLI

TIME TABLE 2020-21 DEPARTMENT OF MARATHI

NAME OF THE TEACHER :- Dr. Manisha N. Bansode


Sr. no	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	8.00am To 8.48am	Marathi VII	Marathi VII	Marathi VII	Marathi VIII	Marathi VIII	Marathi VIII
2	8.48 am To 9.36 am	Marathi VIII	Marathi VIII	Marathi IX	Marathi IX	Marathi IX	--
3	9.30 am To 10.24 am	Marathi com	Marathi com	Marathi com	Marathi com	Marathi III	Marathi III
Recess 10.24 am To 10.55 am							
4	10.55 am To 11.43 am	-	-	-	Marathi III	-	-
5	11.43 am To 12.31 am	-	-	Marathi com	-	-	-

Paper No	Name of the Paper	Total weekly Workload
I	Marathi - Compulsary	04
III	Marathi Ancillary - III	03
VII	Linguistics & Marathi Grammar	04
VIII	Modern Marathi Literature	04
IX	Occupational Marathi	03
	Total	18


NAME OF THE TEACHER :- Dr. Ramesh B. Jadhav

Sr. no	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	8.00am To 8.48am	-	-	-	Marathi II	-	-
2	8.48 am To 9.36 am	Marathi - Opt	Marathi - Opt	Marathi - Opt	Marathi - Opt	-	-
3	9.30 am To 10.24 am	Marathi II	Marathi VI	Marathi IV	Marathi IV	Marathi IV	Marathi IV
4	10.55 am To 11.43 am	Marathi V	Marathi VI	Marathi V	Marathi V	Marathi V	Marathi II
5	11.43 am To 12.31 am	Marathi IV					

Paper No	Name of the Paper	Total weekly Workload
I	Marathi - Opt	04
III	Marathi Ancillary - II	03
VII	History of Modern Marathi Literature	04
VIII	Indian & Western Theories of Literature	04
IX	Literature & Society	03
	Total	18


Subject Teacher


Head of the Department


Principal
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli
Tal : Panvel, Dist : Raigad

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College
Kaiamboli, Navi Mumbai.
Academic Year 2020-21
Time Table - Semester- III & V

MAHAJAN SANJAY BABURAO

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am to 8.50 am	SYBA Macroeconomics -II	SYBA Macroeconomics -II	TYBA Paper No. VII	TYBA Paper No. VII	TYBA Paper No. VIII	TYBA Paper No. VIII
2.	8.50 am to 9.40 am	TYBA Paper No. VII	-----	-----	-----	TYBA Paper No. VIII	TYBA Paper No. XI
3.	9.40 am to 10.30 am		TYBA Paper No. IX	TYBA Paper No. IX	TYBA Paper No. VIII	-----	TYBA Paper No. IX
4.	10.50 am to 11.40 am	TYBA Paper No. XI	TYBA Paper No. VII	-----	TYBA Paper No. XI	TYBA Paper No. XI	-----
5.	11.40 am to 12.30 am	....	-----	-----	-----	SYBA Macroeconomics -II	-----

Sr. No.	Paper No.	Paper Name	Total Weekly Workload
1.	III	Macroeconomics-II	03
2.	VII	Microeconomics-III	04
3.	VIII	Economics of Development	04
4.	IX	Industrial & Labour Economics	03
5.	XI	Environmental Economics	04
Total			18



[Signature]
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kaiamboli,
Tal : Panvel, Dist : Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College
Kalamboli, Navi Mumbai.
Academic Year 2020-21
Time Table - Semester- III & V

MAHAJAN SANJAY BABURAO

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am to 8.50 am	SYBA Macroeconomics –II	SYBA Macroeconomics –II	TYBA Paper No. VII	TYBA Paper No. VII	TYBA Paper No. VIII	TYBA Paper No. VIII
2.	8.50 am to 9.40 am	TYBA Paper No. VII	-----	-----	.....	TYBA Paper No. VIII	TYBA Paper No. XI
3.	9.40 am to 10.30 am		TYBA Paper No. IX	TYBA Paper No. IX	TYBA Paper No. VIII	.....	TYBA Paper No. IX
4.	10.50 am to 11.40 am	TYBA Paper No. XI	TYBA Paper No. VII	.....	TYBA Paper No. XI	TYBA Paper No. XI	.....
5.	11.40 am to 12.30 am	....	.....	.....	.....	SYBA Macroeconomics –II	.....

Sr. No.	Paper No.	Paper Name	Total Weekly Workload
1.	III	Macroeconomics-II	03
2.	VII	Microeconomics-III	04
3.	VIII	Economics of Development	04
4.	IX	Industrial & Labour Economics	03
5.	XI	Environmental Economics	04
Total			18



[Signature]
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.



Time Table - Semester- I, III, V & II, IV, VI
SALUNKHE VASUNDHARA DATTARAM

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am to 8.50 am	X & XVII	X & XVII	IV & VI	I & II	I & II Advertising	I & II Advertising
2.	8.50 am to 9.40 am	.....	X & XVII	X & XVII	XII & XVIII	I & II	I & II
3.	9.40 am to 10.30 am	XII & XVIII	.....	.....	.....	XII & XVIII	.....
4.	10.50 am to 11.40 am	I & II	I & II Advertising	.....	.....	IV & VI	.....
5.	11.40 am to 12.30 am	.....	.....	.....	.....	.....	IV & VI
6.	12.30 am to 1.30pm	I & II Advertising	.....	.....	.....	.....	.....

Sr. No.	Class	Paper No.	Paper Name	Total Weekly Workload
1.	FYBA	I & II	Microeconomics-I & II	04
2.	SYBA	IV & VI	Public Economics -IV Indian Economy - VI	03
3.	SYBA	Adv I & II	Introduction to Advertising- I, Semester-III Introduction to Advertising-II, Semester-IV	04
4.	TYBA	X & XVII	Economic History of India, Semester-V Development Theory And Experience, Semester-VI	04
5.	TYBA	XII & XVIII	History Of Economic Thought, Semester-V International Trade, Policy and Practice- Semester-VI	03
Total				18

W. S. Salunkhe
Subject Teacher

S. M. D. L.
H.O.D. Dept Economics
Head
Department of Economics
S. M. D. L. College, Kalamboli.

A. S. Salunkhe
Principal
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.

TIME TABLE 2020-21

DEPARTMENT OF GEOGRAPHY

Semester - V

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	Geo.V	Geo. V	Geo. V	Geo.V	Geo. VI	Geo.VIII
2.	8.48 am To 9.36 am	Geo. VII	Geo.VII	Geo.IV	Geo.VIII	Geo.IV	Geo.IV
3.	9.36 am To 10.24 am	Geo. VII	Geo.VII	Geo. VIII	Geo. VI	Geo. VI	Geo. VIII
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	Geo. IX	Geo.IX	Geo. IX	Geo.IV		
5.	11.43 am To 12.31 am						

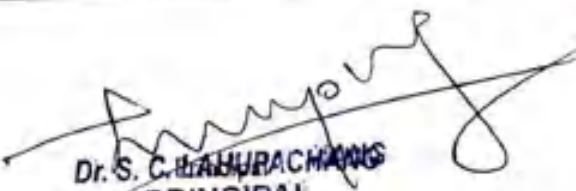
Paper No.	Name of Paper
IV	Geography Settlement
V- A	Geography of Maharashtra
VI	Tools and Techniques in Geography for Spatial Analysis - I
VII	Regional Planning & Development
VIII - A	Geography of Resources
IX	Geospatial Technology

Semester - VI

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	Geo.V	Geo. V	Geo. V	Geo.V	Geo. VI	Geo.VIII
2.	8.48 am To 9.36 am	Geo. VII	Geo.VII	Geo.IV	Geo.VIII	Geo.IV	Geo.IV
3.	9.36 am To 10.24 am	Geo. VII	Geo.VII	Geo. VIII	Geo. VI	Geo. VI	Geo. VIII
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	Geo. IX	Geo.IX	Geo. IX	Geo.IV		
5.	11.43 am To 12.31 am						

Paper No.	Name of Paper
IV	Environmental Geography
V B	Political Geography
VI	Tools and Techniques in Geography for Spatial Analysis - II
VII	Economic Geography
VIII - B	Social Geography
IX	Research Methodology




Dr. S. C. BAHURACHKAR
PRINCIPAL
 S. M. D. L. College,
 Kalamboli, Navi Mumbai

S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.

TIME TABLE 2020-21 DEPARTMENT OF GEOGRAPHY

Semester I, III & V

Mahajan P.P.

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	F.C. I	F.C. I	F.C. I		Geo. I	Geo. I
2.	8.48 am To 9.36 am	Geo. II	Geo. II	Geo. IV	Geo. III	Geo. IV	Geo. IV
3.	9.36 am To 10.24 am		F.C. II	Geo. III	F.C. II		
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	Geo. III				Geo. IV	Geo. I
5.	11.43 am To 12.31 am		Geo. II	F.C. II	Geo. I		

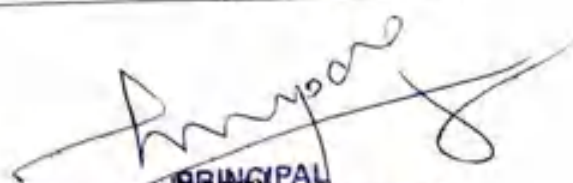
Paper No.	Name of Paper	Total Weekly Workload
I	Foundation Course	04
I	Physical Geography : Part -I	04
II	Foundation Course	03
II	Introduction to Climatology	03
III	Physical Geography of India	03
IV	Geography Settlement	04
Total		21

Mali P.P.

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	Geo. V	Geo. V	Geo. V	Geo. V	Geo. VI	Geo. VIII
2.	8.48 am To 9.36 am	Geo. VII	Geo. VII	E.V.S.	Geo. VIII	E.V.S.	E.V.S.
3.	9.36 am To 10.24 am	Geo. VII	Geo. VII	Geo. VIII	Geo. VI	Geo. VI	Geo. VIII
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	Geo. IX	Geo. IX	Geo. IX	E.V.S.		
5.	11.43 am To 12.31 am						

Paper No.	Name of Paper	Total Weekly Workload
I	Environmental Studies	04
V- A	Geography of Maharashtra	04
VI	Tools and Techniques in Geography for Spatial Analysis - I	03
VII	Regional Planning & Development	04
VIII - A	Geography of Resources	04
IX	Geospatial Technology	03
Total		22




PRINCIPAL
 SES's S. M. Dadasaheb Limaye
 ACS College, Kalamboli,
 Tal : Panvel, Dist : Raigad.

S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.

TIME TABLE 2020-21 DEPARTMENT OF GEOGRAPHY

Semester II, IV & VI

Mahajan P.P.

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	F.C. I	F.C. I	F.C. I	F.C. I	Geo. I	Geo. I
2.	8.48 am To 9.36 am	Geo. II	Geo. II	Geo. IV	Geo. III	Geo. IV	Geo. IV
3.	9.36 am To 10.24 am	F.C. II	F.C. II	Geo. III	F.C. II		
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	Geo. III				Geo. IV	Geo. I
5.	11.43 am To 12.31 am		Geo. II		Geo. I		

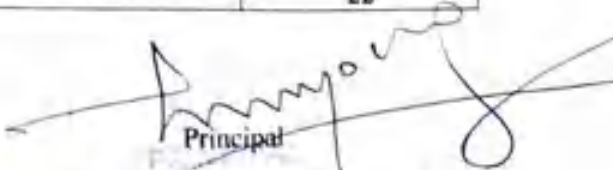
Paper No.	Name of Paper	Total Weekly Workload
I	Foundation Course	04
I	Physical Geography : Part II – Climatology & Oceanography	04
II	Foundation Course	03
II	Introduction to Oceanography	03
III	Physical Geography of Maharashtra	03
IV	Environmental Geography	04
Total		21

Mali P.P.

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	Geo. V	Geo. V	Geo. V	Geo. V	Geo. VI	Geo. VIII
2.	8.48 am To 9.36 am	Geo. VII	Geo. VII	E.V.S.	Geo. VIII	E.V.S.	E.V.S.
3.	9.36 am To 10.24 am	Geo. VII	Geo. VII	Geo. VIII	Geo. VI	Geo. VI	Geo. VIII
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	Geo. IX	Geo. IX	Geo. IX	E.V.S.		
5.	11.43 am To 12.31 am						

Paper No.	Name of Paper	Total Weekly Workload
I	Environmental Studies	04
V B	Political Geography	04
VI	Tools and Techniques in Geography for Spatial Analysis – II	03
VII	Economic Geography	04
VIII – B	Social Geography	04
IX	Research Methodology	03
Total		22




 Principal
 S.E.S. Shikshan Maharshi Limaye College
 ACS, Kalamboli, Dist. Raichur
 Tal. - Kalamboli, Dist. Raichur



S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.
TIME TABLE 2020 -21 DEPARTMENT OF HISTORY
Semester – II, IV&VI

Dr. GAIKWAD. S.K

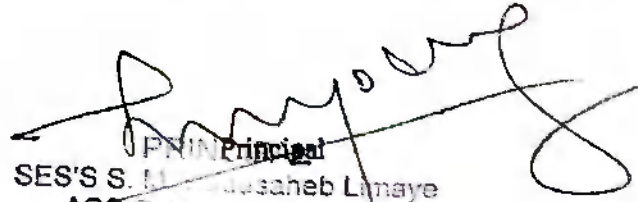
Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am						
2.	8.48 am To 9.36 am			Paper -VI	Paper -VI	Paper -VIII	HIST.III
3.	9.36 am To 10.24 am	Paper -IV	Paper -IV	Paper -VI	Paper -VIII	Paper -VIII	Paper -VIII
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	Paper - IV	Paper -IV	HIST.III			
5.	11.43 am To 12.31 am				HIST.III		

Paper No.	Name of Paper	Total Weekly Workload
III	HISTORY OF ANCIENT INDIA (From Earliest Times To 1000 A.D.) III	03
VII	History of the Mughal Rule (1526 A.D.- 1707 A.D.)	04
VI	Introduction to Museology and Archival Science VI	04
VIII	History of Asia (1945 CE -2000 CE)	04
Total		14

Dr. JADHAV B. B. SEM - II

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	Paper -V	Paper -V	Paper -VII	Paper -VII	Paper -IX	Paper -IX
2.	8.48 am To 9.36 am	Paper -V	Paper -V	Paper- II	-	Paper -II	Paper -IX
3.	9.36 am To 10.24 am	-	-	Paper -I	-	Paper -I	Paper -I
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	-	-	Paper -VII	Paper -VII	-	-
5.	11.43 am To 12.31 am	Paper -II	Paper -I	-	-	-	-

Paper No.	Name of Paper	Total Weekly Workload
I	History of Modern India: Society and Economy	04
II	Landmarks in World History, 1300 A.D.-1945 A.D.	03
V	History of Contemporary India (1947 CE- 2000 CE)	04
VII	History of the Marathas (1707 CE – 1818 CE)	04
IX(A)	Research Methodology and Sources of History	03
Total		18


Principal
SES'S S. M. Madhusaheb Limaye
ACS College, Kalamboli,
Tal.- Panvel, Dist. - Raigad.

S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.

TIME TABLE 2020 -21


DEPARTMENT OF HISTORY

Dr. JADHAV B. B.

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	Paper- V	Paper-V	Paper-VII	Paper-VII	Paper- IX	Paper - IX
2.	8.48 am To 9.36 am	Paper- V	Paper-V	Paper -II	X	Paper - II	Paper - IX
3.	9.36 am To 10.24 am	X	X	Paper - I	Paper - I	Paper - I	Paper - I
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	X	Paper -I	Paper- VII	Paper -VII	X	X
5.	11.43 am To 12.31 am	Paper- II	X			X	X

Paper No.	Name of Paper	Total Weekly Workload
Paper - I	History of Modern India (1857-1947)	04
Paper - II	Landmarks in World History, 1300 A.D.-1945 A.D.	03
Paper - V	Core Course V: History of Modern Maharashtra (1818 CE-1960 CE)/ History of Contemporary India (1947 CE- 2000 CE)	04
Paper - VII	Core Course VII- History of the Marathas (1630 CE – 1707CE) /(1707 CE – 1818 CE)	04
Paper - IX	Elective Course IX A - Research Methodology and Sources of History	03
Total		18





Principal
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

M.A. (HISTORY) Sem. - II & IV TIME TABLE 2020 - 21

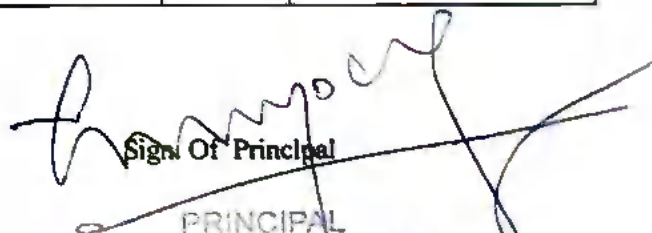
Sr. No	TIME	CLASS	Mon	Tues	Wed	Thursday	Fri.	Saturday
1	12.00-01.00	M.A. I	Paper No- III- (Gaikwad S.K.)	Paper No- III- (Gaikwad S.K.)	Paper No- III- (Gaikwad S.K.)	Paper No- III - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)
		M.A. II	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	PROJECT (Jadhav B. B.)	PROJECT (Jadhav B. B.)
2	01.00-02.00	M.A. I	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No- IV - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)
		M.A. II	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	PROJECT (Jadhav B. B.)	PROJECT (Jadhav B. B.)
2	01.00-02.00	M.A. I	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)		

PAPER & TEACHER

M. A. I			M.A. II		
Name of Paper	Weekly workload			Weekly workload	
Core Paper I. – Philosophy of History	04	DR. JADHAV B. B.	I. Sources in Historical Research	04	DR. JADHAV B. B.
Core Paper II. – History of Contemporary India (1947 CE – 2000 CE)	04	DR. JADHAV B. B.	II. History of India: Concept and Theory	04	DR. GAIKWAD S. K.
Core Paper III. – Milestones in World History (1750 CE – 1960 CE)	04	DR. GAIKWAD S. K.	III. The Project	04	DR. JADHAV B. B.
Core Paper IV. – History of Emancipatory Movements in the Modern World	04	DR. GAIKWAD S. K.	-----		-----


 Sign. of Subject Teacher



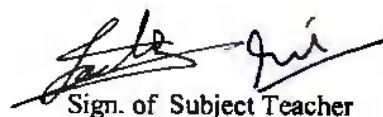

 Sign. Of Principal
 PRINCIPAL
 SES'S S. M. Dadasaheb Limaye
 ACS College, Kalamboli,
 Tal.- Panvel, Dist. - Raigad.

M.A. (HISTORY) Sem. - II & IV TIME TABLE 2020 - 21

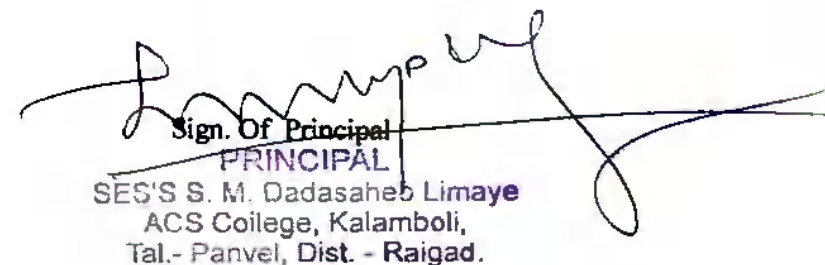
Sr. No	TIME	CLASS	Mon	Tues	Wed	Thursday	Fri.	Saturday
1	12.00-01.00	M.A. I	Paper No- III- (Gaikwad S.K.)	Paper No- III- (Gaikwad S.K.)	Paper No- III- (Gaikwad S.K.)	Paper No- III - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)
		M.A. II	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	PROJECT (Jadhav B. B.)	PROJECT (Jadhav B. B.)
2	01.00-02.00	M.A. I	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No- IV - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)
		M.A. II	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	PROJECT (Jadhav B. B.)	PROJECT (Jadhav B. B.)
2	01.00-02.00	M.A. I	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)		

PAPER & TEACHER

M. A. I			M.A. II		
Name of Paper	Weekly workload			Weekly workload	
Core Paper I. – Philosophy of History	04	DR. JADHAV B. B.	I. Sources in Historical Research	04	DR. JADHAV B. B.
Core Paper II. – History of Contemporary India (1947 CE – 2000 CE)	04	DR. JADHAV B. B.	II. History of India: Concept and Theory	04	DR. GAIKWAD S. K.
Core Paper III. – Milestones in World History (1750 CE – 1960 CE)	04	DR. GAIKWAD S. K.	III. The Project	04	DR. JADHAV B. B.
Core Paper IV. – History of Emancipatory Movements in the Modern World	04	DR. GAIKWAD S. K.	-----		-----


 Sign. of Subject Teacher





 Sign. Of Principal
PRINCIPAL
 SES'S S. M. Dadasaheb Limaye
 ACS College, Kalamboli,
 Tal.- Panvel, Dist. - Raigad.

M.A. (HISTORY) Sem. - II & IV TIME TABLE 2020 - 21

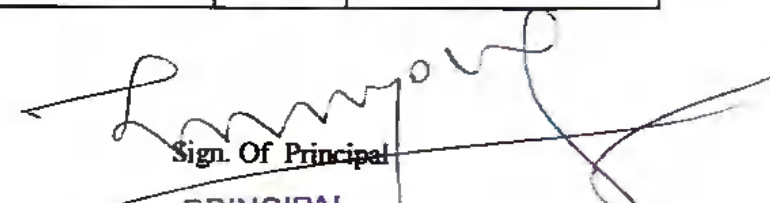
Sr. No	TIME	CLASS	Mon	Tues	Wed	Thursday	Fri.	Saturday
1	12.00-01.00	M.A. I	Paper No- III- (Gaikwad S.K.)	Paper No- III- (Gaikwad S.K.)	Paper No- III- (Gaikwad S.K.)	Paper No- III - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)
		M.A. II	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	PROJECT (Jadhav B. B.)	PROJECT (Jadhav B. B.)
2	01.00-02.00	M.A. I	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No-I (Jadhav B. B.)	Paper No- IV - (Gaikwad S.K.)	Paper No- IV - (Gaikwad S.K.)
		M.A. II	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	Paper No- II- (Gaikwad S.K.)	PROJECT (Jadhav B. B.)	PROJECT (Jadhav B. B.)
2	01.00-02.00	M.A. I	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)	Paper No-II (Jadhav B. B.)		

PAPER & TEACHER

M. A. I			M.A. II		
Name of Paper	Weekly workload			Weekly workload	
Core Paper I. – Philosophy of History	04	DR. JADHAV B. B.	I. Sources in Historical Research	04	DR. JADHAV B. B.
Core Paper II. – History of Contemporary India (1947 CE – 2000 CE)	04	DR. JADHAV B. B.	II. History of India: Concept and Theory	04	DR. GAIKWAD S. K.
Core Paper III. – Milestones in World History (1750 CE – 1960 CE)	04	DR. GAIKWAD S. K.	III. The Project	04	DR. JADHAV B. B.
Core Paper IV. – History of Emancipatory Movements in the Modern World	04	DR. GAIKWAD S. K.	-----		-----


 Sign. of Subject Teacher




 Sign. Of Principal
PRINCIPAL
 SES'S S. M. Dadasaheb Limaye
 ACS College, Kalamboli,
 Tal.- Panvel, Dist. - Raigad.

SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE, KALAMBOLI
COMMERCE DEPARTMENT TIME TABLE 2020-2021

Time	Class	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.00-8.48 AM	F. Y. B.Com S. Y. B.Com	A/C - Jaya Com - Dharmal	A/C - Jaya Com - Dharmal	A/C - Jaya Com - Dharmal	A/C - Jaya Adv - Dharmal	Eco - Arote Adv - Dharmal	Eco - Arote Adv - Dharmal
8.48-9.36 AM	T. Y. B.Com F. Y. B.Com	Eco - Arote Maths - (Theory)Choubey	Eco - Arote Maths - Theory Choubey	Eco - Arote Evs - Mali	Tax - Arote Eco I - Arote	MHRM - Jaya Evs - Mali	MHRM - Jaya Evs - Mali
9.36-10.24 AM	S. Y. B.Com T. Y. B.Com	Eco - Arote CA - Dharmal	Eco - Arote CA - Dharmal	MA - Arote Export - Dharmal	B. Law - Jaya Export - Dharmal	A/C - Jaya Export - Dharmal	FC - Choubey FA - Jaya
10.24-10.55 AM	F. Y. B.Com S. Y. B.Com T. Y. B.Com	Maths - (Theory)Choubey B. Law - Jaya CA - Dharmal	Maths - (Theory)Choubey B. Law - Jaya CA - Dharmal	BC - Rawat Eco - Arote FA - Jaya	FC - Choubey FC - Choubey MHRM - Jaya	A/C - Jaya Tax - Arote	A/C - Jaya Tax - Arote
10.55-11.45 AM	F. Y. B.Com	BC - Rawat	BC - Rawat	FC - Arote	Evs - Mali	Maths - Theory Choubey	FC - Arote
11.45-12.31 PM	S. Y. B.Com T. Y. B.Com F. Y. B.Com	A/C - Jaya FC - Arote BC - Rawat	FC - Choubey BC - Rawat (Tur)	FA - Jaya BC - Rawat (Tur)	MA - Arote BC - Rawat (Tur)	MA - Arote BC - Rawat (Tur)	B. Law - Jaya BC - Rawat
12.31-1.19 PM	T. Y. B.Com F. Y. B.Com S. Y. B.Com T. Y. B.Com	Maths (Tur) Choubey - -	Maths (Tur) Choubey - -	Maths (Tur) Choubey - -	Maths (Tur) Choubey - -	Maths (Tur) Choubey - -	- - - -



[Signature]
PRINCIPAL
S.E.S. & S.M. Dadasaheb Limaye
College, Kalamboli,
Tal: Panvel, Dist: Raigad

S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.

TIME TABLE 2020-21

DEPARTMENT OF COMMERCE

Mrs. Vaishali R. Dhamal

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	SY-COM-III&IV	SY-COM-III&IV	SY-COM-III&IV	SY-Advertising I&II	SY-Advertising I&II	SY-Advertising I&II
2.	8.48 am To 9.35 am	TY-COST A/C	TY-COST A/C	TY-Export Marketing	TY-Export Marketing	TY-Export Marketing	-----
3.	9.35 am To 10.24 am	TY-COST A/C	TY-COST A/C	-----	FY-COM-I&II	FY-COM-I&II	FY-COM-I&II
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am			-----	-----	-----	---
5.	11.43 am To 12.31 pm			---	---	---	---

Sr. No.	Name of Paper	Total Weekly Workload
I	Commerce-I&II	03
II	Commerce - III&IV	03
III	Advertising-I,II	03
IV	Financial Accounting & Auditing-VI & IX (Cost Accounting)	04
V	Export Marketing-I&II	03
Total	05	16



[Signature]
Principal
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal. Panvel, Dist. Raigad.

S.E.S. SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE, KALAMBOLI

INDIVIDUAL TIME TABLE 2020-21

DEPARTMENT OF COMMERCE

NAME OF THE SUBJECT TEACHER: Dr. BHARTI AROTE

Sr No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	8:30 am To 9:45 am	Business Eco-V & VI	Business Eco-V & VI	Business Eco-V & VI	Direct & Indirect Tax	Business Eco-I & II	Business Eco-I & II
2	10:15 am To 11:30 am	Business Eco-III & IV	Business Eco-III & IV	Management Accounting & Auditing	Business Eco-I & II	-	-
3	11:45 am To 12:30 pm	-	-	Business Eco-III & IV	-	Direct & Indirect Tax	Direct & Indirect Tax
Recess 10:24 am To 10:55 am							
4	12:35 pm To 1:45 pm	-	-	Foundation Course-I & II	Management Accounting & Auditing - SY	Management Accounting & Auditing - SY	Foundation Course-I & II
5	1:45 pm To 2:30 pm	Foundation Course-I & II	-	-	-	-	-

Paper No.	Name of Paper	Total Weekly Workload
I	Management Accounting- SY	03
II	Direct & Indirect Tax -TY	03
III	Business Eco-V & VI- TY	03
IV	Business Eco-III & IV-SY	03
V	Business Eco-I & II-FY	03
VI	Foundation Course I & II-FY	03
Total	05	18

[Signature]
Subject Teacher

[Signature]
HOD

Head
Department of Commerce
S. M. D. L. College, Kalamboli.

[Signature]
Principal
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli.
Tal. Panvel, Dist. Raigad.
Tal. Panvel, Dist. Raigad.



S.E.S. SHIKSHAN MAHARSHI LIMAYE COLLEGE, KALAMBOLI.

TIME TABLE 2020-21

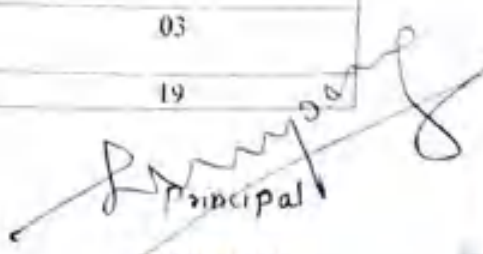
DEPARTMENT OF COMMERCE

Prof. J.D. Machigar

Sr. No	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8.00 am To 8.48 am	FY- Accountancy Fin. Mgt-I II	FY- Accountancy Fin. Mgt-I II	FY- Accountancy Fin. Mgt-I II	FY- Accountancy Fin. Mgt-I II	TY- Financial Accounting & Auditing-VII & IX	TY- Financial Accounting & Auditing VII & IX
2.	8.48 am To 9.36 am	-----	-----	-----	Accountancy Fin. Mgt-III & IV	SY- Business Law I & II	TY- Financial Accounting & Auditing VII & IX
3.	9.36 am To 10.24 am	Accountancy Fin. Mgt-III & IV	Accountancy Fin. Mgt-III & IV	TY- Financial Accounting & Auditing VII & IX	TY- Financial Accounting & Auditing VII & IX	SY- Business Law I & II	SY- Business Law I & II
Recess 10.24 am To 10.55 am							
4.	10.55 am To 11.43 am	Accountancy Fin. Mgt-III & IV	-----	TY- Financial Accounting & Auditing VII & IX	TY- Financial Accounting & Auditing VII & IX	-----	SY- Business Law I & II

Paper No.	Name of Paper	Total Weekly Workload
I & II	Accountancy and financial Mgt. I & II	04
III & IV	Accountancy and financial Mgt. III & IV	04
I & II	Business Law-I & II	04
VII & IX	Financial accounting and Auditing-paper VII & IX	04
V & VI	Marketing and Human resources Mgt.(Commerce V & VI)	03
Total		19




PRINCIPAL
 S.E.S.'s S. M. Dadasaheb Limaye
 College, Kalamboli,
 Tal : Panvel, Dist : Raigad.

SHIKSHAN MAHARSHI DADASAHEB LIMAYE ART'S, SCIENCE & COMMERCE COLLEGE KALAMBOLI, NAVI MUMBAI
Academic Year 2020-2021
FACULTY OF SCIENCE

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FYBSc						
9.40-10.30	Botany(Practical) (US) / Physics (Practical)	Botany(Practical)(US) / Physics (Practical)				
10.30-11.20	Botany(Practical) (US) / Physics (Practical)	Botany(Practical)(US) / Physics (Practical)	Physics /Botany(US)	Physics /Botany(US)	Physics /Botany(US)	Microbiology
11.20-12.10	Botany(Practical) (US) / Physics (Practical)	Botany(Practical)(US) / Physics (Practical)	Microbiology	Microbiology	Physics /Botany(US)	F.C.
12.10-01.00	Physics /Botany(US)	Physics /Botany(US)	F.C.	Microbiology	Microbiology	Microbiology
01.00-01.50	Org. Chemistry (A.G.)	Inorg.Chemistry (B.V.)	Physical Chemistry (C.S.)	Inorg.Chemistry (B.V.)	Physical Chemistry (C.S.)	Org. Chemistry (A.G.)
02.10-05.00	Chem-I (Practical)	Chem-II (Practical)		Micro Practical / Math-I (Lectures & Tutorials)	Micro Practical / Math-I (Lectures & Tutorials)	
SYBSc						
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10.30-11.20	Microbiology	Microbiology	F.C.(US)	F.C.(US)	F.C.(US)	Chem-2 Pract. (AG/VB/CS)
11.20-12.10	Org.Chemistry (A.G.)	Ana.Chemistry (S.R.P.)	Org.Chemistry (A.G.)	Ana.Chemistry (S.R.P.)	Inorganic Chemistry (V.B.)	Chem-2 Pract. (AG/VB/CS)
12.10-01.00	Physical Chemistry (C.S.)	Ana.Chemistry (S.R.P.)	Physical Chemistry (C.S.)	Inorganic Chemistry (V.B.)	Microbiology	Chem-2 Pract. (AG/VB/CS)
01.00-01.50	Microbiology/Maths	Microbiology/Maths	Microbiology/Maths	Microbiology/Maths	Microbiology/Maths	Microbiology/Maths
02.10-3.00	Maths/Micro Practical	Maths/Micro Practical	Maths/Micro Practical	Chem-3.Pract. (S.R.P.)	Chem-1 Pract. (AG/VB/CS)	Maths Practical/ Micro.lec.

3.00-5.00	Micro Practical / Maths Practical	Micro Practical / Maths Practical	Micro Practical / Maths Practical	Chem.-3.Pract. (S.R.P.)	Chem-1 Pract. (AG/VB/CS)	Maths Practical
TYBSc Chemistry						
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09.00-10.10	Inorganic Pract.(V.B.)	Organic Pract.(A.G.)	Analytical.Pract.(S.R.P.)	Physical Pract.(C.S.)	D.D.Pract. (S.R.P)	OFF
10.10-11.00	Inorganic Pract.(V.B.)	Organic Pract.(A.G.)	Analytical.Pract.(S.R.P.)	Physical Pract.(C.S.)	D.D.Pract. (S.R.P)	OFF
11.00-11.50	Inorganic Pract.(V.B.)	Organic Pract.(A.G.)	Analytical.Pract.(S.R.P.)	Physical Pract.(C.S.)	D.D.Pract. (S.R.P)	D.D.(S.R.P.)
12.10-01.00	Organic (AG)	Inorganic (V.B.)	Inorganic (V.B.)	Analytical (S.R.P.)	Inorganic (V.B.)	Organic (AG)
01.00-01.50	Analytical (S.R.P.)	Physical (C.S.)	Organic (AG)	Physical (C.S.)	Organic (AG)	Physical (C.S.)
02.10-03.00	Physical (C.S.)	Organic (AG)	Physical (C.S.)	Organic (AG)	Physical (C.S.)	Inorganic (V.B.)
03.00-03.50	Inorganic (V.B.)	Analytical (S.R.P.)	Analytical (S.R.P.)	Inorganic (V.B.)	Analytical (S.R.P.)	Analytical (S.R.P.)
03.50-04.30	D.D. (S.R.P.)	D.D.(S.R.P.)	D.D.(S.R.P.)	OFF	D.D.(S.R.P.)	D.D.(S.R.P.)

SRP Mr.Palkar S.R.
AG Mr.Gaikwad Aniket
VB Mrs.Bhagat Varsha
CS Miss.Chandani Sonavne

SP Mrs.Patil Surekha
RK Mrs.Kanka Rupa
MB Miss.Manisha Bhutke
US Mrs.Saingar Usha



[Signature]
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE, KALAMBOLI
COMPUTER SCIENCE DEPARTMENT 2020 - 21 (FIRST HALF)

TIME	CLASS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10:30 - 11:20	T.Y. BSC	IR(P)	IR(P)	IR(P)	DIP	DIP	DIP
	S.Y. BSC	.NET	.NET	.NET	ADVANCE JAVA	ADVANCE JAVA	ADVANCE JAVA
	F.Y. BSC	CALCULAS	CALCULAS	CALCULAS	SMTH	SMTH	SMTH
11:20 - 12:15	T.Y. BSC	EH	EH	EH	EH (P)	EH (P)	EH (P)
	S.Y. BSC	FOA	FOA	FOA	FOA (P)	FOA (P)	FOA (P)
	F.Y. BSC	GT	GT	GT	PYTHON II	PYTHON II	PYTHON II
12:15 - 01:10	T.Y. BSC	WSN	WSN	WSN	WSN (P)	WSN (P)	WSN (P)
	S.Y. BSC	ADVANCE JAVA(P)	ADVANCE JAVA(P)	ADVANCE JAVA(P)	CN	CN	CN
	F.Y. BSC	LINUX (P)	LINUX (P)	LINUX (P)	LINUX	LINUX	LINUX
R E C E S S							
01:10 - 01:40	T.Y. BSC	IR	IR	IR	DIP (P)	DIP (P)	DIP (P)
	S.Y. BSC	.NET(P)	.NET(P)	.NET(P)	.NET	.NET	.NET
	F.Y. BSC	C	C	C	C (P)	C (P)	C (P)
02:35-03:25	T.Y. BSC	CF (P)	CF (P)	CF (P)	CF	CF	CF
	S.Y. BSC	CN	CN	CN	CN(P)	CN(P)	CN(P)
	F.Y. BSC	DS	DS	DS	DS (P)	DS (P)	DS (P)
PROJECT EVALUATION							
3:25-04:10	T.Y. BSC	LAP	LAP	LAP	LAP (P)	LAP (P)	LAP (P)
	S.Y. BSC	LAP	LAP	LAP	LAP (P)	LAP (P)	LAP (P)
	F.Y. BSC	SMTH (P)	SMTH (P)	PYTHON II(P)	PYTHON II(P)	CALCULAS (P)	CALCULAS (P)

- ANITA MHATRE :- PYTHON II, GT, CN, ADVANCE JAVA, IR, DSIP(P)
- TEJASHRI PATIL :- C, DS, ANDROID, SE, WSN, DSIP(P)
- KRANTI JOSHI :- LINUX, FOA, .NET, LAP(P), EH, CF
- CHAUBEY SIR:- CALCULAS, SMTH, LAP(P)

HOD



PRINCIPAL
 SES'S S. M. Dadasaheb Limaye
 ACS College, Kalamboli,
 Tal : Panvel, Dist : Raigad

SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE, KALAMBOLI
COMPUTER SCIENCE DEPARTMENT 2020 - 21 (SECOND HALF)

TIME	CLASS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10:30 - 11:20	T. Y. BSC	GP(P)	GP(P)	GP(P)	INS	INS	INS
	S. Y. BSC	CGT	CGT	CGT	TOC(P)	TOC(P)	TOC(P)
	F. Y. BSC	COD	COD	COD	FOSS	FOSS	FOSS
11:20 - 12:15	T. Y. BSC	GP	GP	GP	INS(P)	INS(P)	INS(P)
	S. Y. BSC	CGT(P)	CGT(P)	CGT(P)	TOC	TOC	TOC
	F. Y. BSC	COD(P)	COD(P)	COD(P)	FOSS(P)	FOSS(P)	FOSS(P)
12:15 - 01:10	T. Y. BSC	AI(P)	AI(P)	AI(P)	AI	AI	AI
	S. Y. BSC	OS	OS	OS	CORE JAVA	CORE JAVA	CORE JAVA
	F. Y. BSC	DM	DM(P)	DM(P)	DBMS(P)	DBMS(P)	DBMS(P)
01:10 - 01:40	R E C E S S						
01:40 - 02:35	T. Y. BSC	ST QA(P)	ST QA(P)	ST QA(P)	ST QA	ST QA	ST QA
	S. Y. BSC	OS	OS	OS	CORE JAVA(P)	CORE JAVA(P)	CORE JAVA(P)
	F. Y. BSC	DM	DSIP(P)	DSIP(P)	DBMS	DBMS	DBMS
02:35-03:25	T. Y. BSC	WS	WS	WS	WS(P)	WS(P)	WS(P)
	S. Y. BSC	IOT	IOT	IOT	WP	WP	WP
	F. Y. BSC	PYTHON	PYTHON	PYTHON	DSIP	DSIP	DSIP
3:25-04:10	T. Y. BSC	PROJECT EVALUATION					
	S. Y. BSC	IOT (P)	IOT (P)	IOT (P)	DBMS(P)	DBMS(P)	DBMS(P)
	F. Y. BSC	PYTHON(P)	PYTHON(P)	PYTHON(P)	SOFT SKILL	SOFT SKILL	SOFT SKILL

- ANITA MIHATRE :- PYTHON I, FOSS, WEB PROGRAMMING, CORE JAVA, AI, DSIP
- TEJASHREE PATIL :- SOFT SKILL, DBMS, OS, IOT(P), GP, INS
- KRANTI JOSHI :- ST, COD, TOC, DBMS, IOT(P), STQA, WEB SERVICES
- CHAUHEY SIR :- DM, CGT

HOD



PRINCIPAL

SEK S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal. Pimpri, Dist. Raigad



SHIKSHAN MAHARSHI DADASAHEB LIMAYE ARTS, SCIENCE & COMMERCE COLLEGE KALAMBOLI, NAVI MUMBAI
Academic Year 2020-2021
FACULTY OF SCIENCE (Chemistry Department)
INDIVIDUAL TIME TABLE

Mr. Palkar S.R.

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
09.00-10.10			T.Y.B.Sc. Practical		T.Y.B.Sc. Practical	
10.10-11.00			T.Y.B.Sc. Practical		T.Y.B.Sc. Practical	
11.00-11.50			T.Y.B.Sc. Practical		T.Y.B.Sc. Practical	T.Y.B.Sc. D.D. Lec.
11.20-12.10		S.Y.B.Sc.Chem-3	T.Y.B.Sc. Practical	S.Y.B.Sc.Chem-3	T.Y.B.Sc. Practical	
12.10-01.00		S.Y.B.Sc.Chem-3				
12.10-01.00				T.Y.B.Sc. Analytical Lec.		
01.00-01.50	T.Y.B.Sc. Analytical Lec.					
02.10-03.00				S.Y.B.Sc.Chem-3 Practical		
03.00-03.50		T.Y.B.Sc. Analytical Lec.	T.Y.B.Sc. Analytical Lec.		T.Y.B.Sc. Analytical Lec.	T.Y.B.Sc. Analytical Lec.
03.50-04.30	T.Y.B.Sc. D.D. Lec.	T.Y.B.Sc. D.D. Lec.	T.Y.B.Sc. D.D. Lec.		T.Y.B.Sc. D.D. Lec.	T.Y.B.Sc. D.D. Lec.

Total Workload

Lecture = 15

Practical = 9

S.R. Palkar
Subject Teacher

S.R. Palkar
Head of Department
Department of Chemistry
S. M. D. L. College, Kalamboli.

A. N. Limaye
Principal
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

**P SHIKSHAN MAHARSHI DADASAHEB LIMAYE ARTS, SCIENCE &
COMMERCE COLLEGE KALAMBOLI, NAVI MUMBAI
TIME TABLE (2020-21)**

NAME OF TEACHER: DR. USHA R. SANGER

CLASS : F.Y.B.Sc.

SUBJECT : BOTANY

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
12:00-1:00	Botany	Botany	Botany	Botany	Botany	

CLASS: S.Y.B.Sc.

SUBJECT : FOUNDATION COURSE.

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1:00 pm-2:00 pm	-	FC	FC	FC	FC	


SUBJECT TEACHER


HEAD OF DEPARTMENT


PRINCIPAL

सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली.

अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२० - २१

विषय शिक्षकाचे नाव :- डॉ. मनीषा बनसोडे

वर्ग - तृतीय वर्ष - कला

विषय :- मराठी (साहित्य) - व्यवसायामुख मराठी पेपर क्रं - १ (सत्र - ५)

अ. क्र.	महिना	तासिका	घटक - उपघटक
१	जून	--	--
२	जुलै	--	--
३	ऑगस्ट	१२	घटक - भाषांतर - सैद्धांतिक विचार
५	सप्टेंबर	२०	उपघटक - १ - भाषांतर, अनुवाद, रूपांतर, अर्वाचिनीकरण या स्वरूपभेदांची चर्चा उपघटक - २ - ललित साहित्याचे भाषांतर - सांस्कृतिक भेदांच्या संदर्भाचे महत्त्व.
६	ऑक्टोबर	१६	घटक - २ - भाषांतर - प्रत्यक्ष भाषांतर अभ्यास १ इंग्रजी उताऱ्याचे मराठीत भाषांतर २ मध्ययुगीन मराठीचे प्रमाण मराठीत भाषांतर
७	नोव्हेंबर	०४	घटक - ३ - उताऱ्याचे आकलन व त्यावरील प्रश्न
८	डिसेंबर	०६	सराव
सत्र - ६			
९	जानेवारी	१०	घटक - १ - मुलाखत सैद्धांतिक विचार
१०	फेब्रुवारी	१६	उपघटक - मुलाखत पूर्वतयारी उपघटक - विविध मध्यमांसाठी मुलाखत लेखन
११	मार्च	१९	घटक - २ - मुलाखत लेखन उपघटक - १ - वर्तमानपत्र, नियतकालिक उपघटक २ - प्रकट मुलाखत
१२	एप्रिल	०५	घटक - ३ - संक्षेपरीक्षण उपघटक - ३ - वाङ्मयीन निबंध



विषय शिक्षक



विभाग प्रमुख



प्राचार्य
PRINCIPAL

SES's S. M. Dadasaheb Limaye
ACS College, Kalambooli,
Tal - Panvel, Dist - Raigad

मुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली.

अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२० - २१

विषय शिक्षकाचे नाव :- डॉ. मनीषा बनसोडे

वर्ग - द्वितीय वर्ष - कला

विषय :- मराठी (साहित्य) - भाषा व बोली - पेपर क्र. - ३ (सत्र - ३)

अ. क्र.	महिना	तासिका	घटक - उपघटक
१	जून	--	--
२	जुलै	--	--
३	ऑगस्ट	१२	घटक - १ मानवी भाषेचे स्वरूप
४	सप्टेंबर	१७	घटक - २ - भाषा समाज आणि संस्कृती
६	ऑक्टोबर	१७	घटक - ३ - भाषा - प्रमाण भाषा आणि बोली - संकल्पना विचार
७	नोव्हेंबर	०४	घटक - ४ - बोलीच्या अभ्यासाची गरज व महत्त्व
८	डिसेंबर	०५	सराव
सत्र - ४			
९	जानेवारी	१७	घटक - १ - आगरी बोलीची वैशिष्ट्ये
१०	फेब्रुवारी	१५	घटक - २ - आगरी साहित्याचा इतिहास
११	मार्च	१४	घटक - ३ - आगरी बोलीतील निवडक कवितांचा अभ्यास
१२	एप्रिल	०८	घटक - ४ - आगरी बोलीतील निवडक कथांचा अभ्यास

Mamle

विषय शिक्षक

Mamle

विभाग प्रमुख

Head

Department of Marathi

S. M. D. L. College, Kalamboli.

Mamle

PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली.

अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२० - २१

विषय शिक्षकाचे नाव :- डॉ. मनीषा बनसोडे

वर्ग - द्वितीय वर्ष - कला

विषय :- मराठी (साहित्य) - मराठी (अनिवार्य) (सत्र - १)

अ.क्र.	महिना	तासिका	घटक - उपघटक
१	सप्टेंबर	१६	घटक - १ - निवडक कथांचा अभ्यास या कथासंग्रहातील कथांचा अभ्यास
२	ऑक्टोबर	१७	घटक - २ - निवडक कथांचा अभ्यास या कथासंग्रहातील कथांचा अभ्यास
३	नोव्हेंबर	०६	घटक - ३- व्यावहारिक मराठी उपघटक - १ - मराठी लेखांचे नियम व विरामचिन्हे उपघटक - २ - भाषांतर (इंग्रजीतून मराठीत)
४	डिसेंबर	१५	घटक - ३- व्यावहारिक मराठी उपघटक - १ - अर्थलेखन उपघटक - २ - भाषांतर (इंग्रजीतून मराठीत) उपघटक - ३ - वर्तमान पत्रासाठी वृत्तान्तलेखन
सत्र - २			
५	जानेवारी	१६	घटक - १ - निवडक कवितांचा अभ्यास या संपादित पुस्तकातील कवितांचा अभ्यास
६	फेब्रुवारी	१५	घटक - २- निवडक कवितांचा अभ्यास या संपादित पुस्तकातील कवितांचा अभ्यास
७	मार्च	१७	घटक - ३ - व्यावहारिक मराठी उपघटक - इतिवृत्त लेखन उपघटक - वर्तमानपत्रासाठी जाहिरात लेखन उपघटक - उताऱ्यावरील प्रश्न
८	एप्रिल	०८	घटक - ४ - सारांश लेखन , निबंधलेखन

SK Kamble

विषय शिक्षक

SK Kamble

विभाग प्रमुख

Head

Department of Marathi

S. M. D. L. College, Kalamboli,

SK Kamble

प्राचार्य PRINCIPAL

SES's S. M. Dadasaheb Limaye

ACS College, Kalamboli,

Tal : Panvel, Dist : Raigad

सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली.

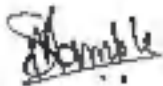
अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२० - २१

विषय शिक्षकाचे नाव :- डॉ. मनीषा बनसोडे

वर्ग - तृतीय वर्ष - कला

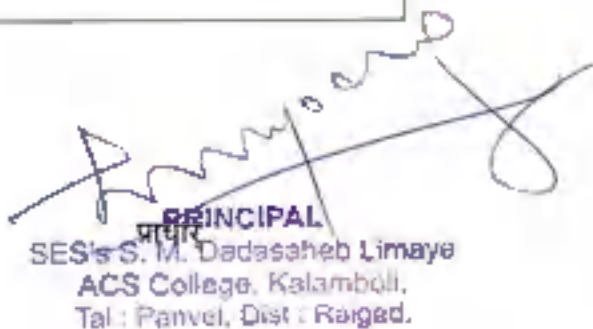
विषय :- मराठी (साहित्य) - भाषाविज्ञान व मराठी व्याकरण - पेपर क्र. - ४ (सत्र - १)

अ. क्र.	महिना	तासिका	घटक - उपघटक
१	जून	--	--
२	जुलै	--	--
३	ऑगस्ट	१०	घटक - १ भाषाशास्त्राच्या विविध शाखा उपघटक - वर्णनात्मक, ऐतिहासिक व समाजशास्त्रीय
५	सप्टेंबर	१२	घटक - २ - स्वनिम विन्यास उपघटक - स्वनि, स्वनिम, स्वनांतर, स्वनिमाचे प्रकार, स्वनिम विश्लेषणाची तत्वे
६	ऑक्टोबर	१२	घटक - ३ - रुपिम विन्यास उपघटक - रुपिका, रुपिम, रुपिकांतर, रुपिमांचे प्रकार, रुपिमप्रक्रिया
७	नोव्हेंबर	०७	घटक - ४ - अर्थ विन्यास उपघटक - भाषिक अर्थाचे स्वरूप, शब्दांर्थाचे प्रकार, अर्थ आणि त्यांचे परस्पर संबंध
८	डिसेंबर	०९	सराव
सत्र - ६			
९	जानेवारी	१०	घटक - १ - शब्दांचे वर्गीकरण उपघटक - पारंपरिक व आधुनिक
१०	फेब्रुवारी	१६	घटक - २ - विकरण उपघटक - लिंग, वचन
११	मार्च	१५	घटक - ३ - शब्दसिद्धी
१२	एप्रिल	०४	घटक - ४ - प्रयोगविचार


विषय शिक्षक


विभाग प्रमुख

Head
Department of Marathi
S. M. D. College, Kalamboli


PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली

अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२० - २१

विषय शिक्षकाचे नाव :- डॉ. मनीषा बनसोडे

वर्ग - तृतीय वर्ष - कला

विषय :- मराठी (साहित्य) - आधुनिक मराठी साहित्य - पेपर क्र. - ८ (सत्र - ५)

अ क्र.	महिना	तासिका	घटक - उपघटक
१	जून	--	--
२	जुलै	--	--
३	ऑगस्ट	१०	घटक - १ आधुनिक मराठी साहित्याचे विश्लेषण
५	सप्टेंबर	१२	घटक - २ - कांदाचीर - जी. के. ऐनापुरे यांच्या कथा संग्रहातील कथांची आशयसूत्रे व रुपबंध यांसह अभ्यास
६	ऑक्टोबर	१२	घटक - ३ - आधुनिक मराठी कादंबरी विश्लेषण
७	नोव्हेंबर	०५	घटक - ४ - भर चौकातील अरण्यरुदन - रंगनाथ पठारे यांच्या कादंबरीचा अभ्यास - आशयसूत्र व रुपबंध यांसह अभ्यास
८	डिसेंबर	०९	सराव
सत्र - ६			
९	जानेवारी	१०	घटक - १ - आधुनिक मराठी कविता विश्लेषण
१०	फेब्रुवारी	१८	घटक - २ - नेमलेल्या निवडक कवितांचा अभ्यास
११	मार्च	१४	घटक - ३ - आधुनिक मराठी नाटक - विश्लेषण
१२	एप्रिल	०७	घटक - ४ - किरवंत - प्रेमनंद राजवी यांच्या नाटकाचा आशयसूत्र व रुपबंध यांसह अभ्यास


विषय शिक्षक


विभाग प्रमुख
Head
Department of Marathi
S. M. D. L. College, Kalamboli


PRINCIPAL
S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal: Panvel, Dist: Raigad.

सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली.

अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२० - २१

विषय शिक्षकाचे नाव :- डॉ. मनीषा बनसोडे

वर्ग - तृतीय वर्ष - कला

विषय :- मराठी (साहित्य) - व्यवसायाभिमुख मराठी पेपर क्रं - ९ (सत्र - ५)

अ. क्र.	महिना	तासिका	घटक - उपघटक
१	जून	—	—
२	जुलै	—	—
३	ऑगस्ट	१०	घटक - भाषांतर - सैद्धांतिक विचार
५	सप्टेंबर	१६	उपघटक - १ - भाषांतर, अनुवाद, रूपांतर, अर्वाधिनीकरण या स्वरूपभेदांची चर्चा उपघटक - २ - तलित साहित्याचे भाषांतर - सांस्कृतिक भेदांच्या संदर्भाचे महत्त्व.
६	ऑक्टोबर	१४	घटक - २ - भाषांतर - प्रत्यक्ष भाषांतर अभ्यास १ इंग्रजी उतान्याचे मराठीत भाषांतर २ मध्ययुगीन मराठीचे प्रमाण मराठीत भाषांतर
७	नोव्हेंबर	०६	घटक - ३ - उतान्याचे आकलन व त्यावरील प्रश्न
८	डिसेंबर	०६	सराव
सत्र - ६			
९	जानेवारी	१२	घटक - १ - मुलाखत सैद्धांतिक विचार
१०	फेब्रुवारी	१६	उपघटक - मुलाखत पूर्वतयारी उपघटक - विविध मध्यमांसाठी मुलाखत लेखन
११	मार्च	१५	घटक - २ - मुलाखत लेखन उपघटक - १ - वर्तमानपत्र, नियतकालिक उपघटक २ - प्रकट मुलाखत
१२	एप्रिल	०६	घटक - ३ - ग्रंथपरीक्षण उपघटक - ३ - वाङ्मयीन निबंध



विषय शिक्षक



विभाग प्रमुख

Head

Department of Marathi

S. M. D. L. College, Kalamboli



PRINCIPAL

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Tal: Panvel, Dist: Raigad.

सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली.

अभ्यासक्रम नियोजन :- शैक्षणिक वर्ष - २०२० - २१

विषय शिक्षकाचे नाव :- डॉ. मनीषा बनसोडे

वर्ग - द्वितीय वर्ष - कला

विषय :- मराठी (साहित्य) - मराठी (अनिवार्य) (सत्र - १)

अ. क्र.	महिना	तासिका	घटक - उपघटक
१	सप्टेंबर	१६	घटक - १ - निवडक कथांचा अभ्यास या कथासंग्रहातील कथांचा अभ्यास
२	ऑक्टोबर	१७	घटक - २ - निवडक कथांचा अभ्यास या कथासंग्रहातील कथांचा अभ्यास
३	नोव्हेंबर	०६	घटक - ३- व्यावहारिक मराठी उपघटक - १ - मराठी लेखांचे नियम व विरामचिन्हे उपघटक - २ - भाषांतर (इंग्रजीतून मराठीत)
४	डिसेंबर	१५	घटक - ३- व्यावहारिक मराठी उपघटक - १ - अर्जलेखन उपघटक - २ - भाषांतर (इंग्रजीतून मराठीत) उपघटक - ३ - वर्तमान पत्रासाठी वृत्तान्तलेखन
सत्र - २			
५	जानेवारी	१७	घटक - १ - निवडक कवितांचा अभ्यास या संपादित पुस्तकातील कवितांचा अभ्यास
६	फेब्रुवारी	१५	घटक - २- निवडक कवितांचा अभ्यास या संपादित पुस्तकातील कवितांचा अभ्यास
७	मार्च	१७	घटक - ३ - व्यावहारिक मराठी उपघटक - इतिवृत्त लेखन उपघटक - वर्तमानपत्रासाठी जाहिरात लेखन उपघटक - उताऱ्यावरील प्रश्न
८	एप्रिल	०८	घटक - ४ - सारांश लेखन , निबंधलेखन

विषय शिक्षक

विभागा प्रमुख

प्रधान
PRINCIPAL

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सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये, कला वाणिज्य आणि

विज्ञान महाविद्यालय, कळंबोली

अभ्यासक्रम नियोजन : शैक्षणिक वर्ष : 2020-2021

विषय :- शिक्षकाचे नाव :- डॉ. रमेश बलभौम जाधवर

वर्ग :- प्रथम वर्ष कला (F.Y.B.A)

विषय :- मराठी (H.P.)

विभाग :- मराठी

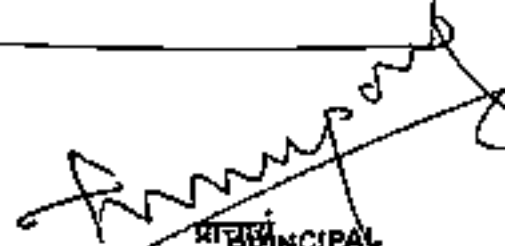
क्र.	महिना	तासिका	घटक-उपघटक (सत्र १)
१	जुलै	१५	घटक-१-नाटक संकल्पना, स्वरूप आणि वाटचाल, नाटकाचा उगम, नाटक म्हणजे काय, नाटकाच्या विविध व्याख्या नाटकाचे घटक
२	ऑगस्ट	१६	नाटकाचे घटक, साहित्य, कथायोजन/कथानक, संवाद, पात्राचित्रण, रंगभूमी, नंगस्थ, प्रकाशयोजना, पार्श्वसंगीत, रंगभूषा व वेशभूषा, दिग्दर्शक, प्रेक्षक, शोकांतिका, सुखान्तिका, नाटकाचे प्रकार
३	सप्टेंबर	१६	सत्यशांधक - नाटक (घटक-२) जॉर्जॉव फुले यांचे चरित्रनाटक नाटक एक कलाप्रकार, गो.पु.देशपांडे यांचा परिचय, सत्यशांधक या नाटकाचे कथानक 'सत्यशांधक' या नाटकातील विचारसूत्रे
४	ऑक्टोबर	०९	घटक ३- सिगारेट्स आधुनिक तरुण पिढीच्या मूल्यव्यवस्थेचा नेमका सांध, 'सिगारेट्स' नाटकाचे कथानक, नाटकाची भाषाशैली, नाटकाचा विषय

सत्र- २

५	नोव्हेंबर	०५	घटक १- प्रवासवर्णन एक खाद.मय प्रकार प्रवासवर्णन व्याख्या
६	डिसेंबर	१६	प्रवासी, प्रवास, प्रदेश, प्रवासवर्णन, या खाद.मय प्रकाराची प्रेरणा व प्रयोजन, 'प्रवास वर्णन' या खाद.मय प्रकाराची वाटचाल
७	जानवारी	१५	प्राचीन कालखंड, प्रवास वर्णनाची घटकतत्वे घटक क्रमांक २ - कुपनापालिकडचा देश, स्वास्थ्य व स्थैर्य हरवलंला देश पाकिस्तान, पाकिस्तानची सांस्कृतिक वैविध्य, रावळपिंडी, लाहोर, पेशावर
८	फेब्रुवारी	१६	नाद अंतराची- श्रीलंका
९	मार्च	०७	जाफना प्रभाकराण आणि जनता


विभागाध्यक्ष


विभागप्रमुख


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ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

सुधागड एज्युकेशन सोसायटी

शिक्षणमहर्षी दादासाहेब लिमये, कला वाणिज्य आणि

विज्ञान महाविद्यालय, कळंबोली

अभ्यासक्रम नियोजन : शैक्षणिक वर्ष : 2020-2021

विषय :- शिक्षकाचे नाव :- डॉ. रमेश बलभूम जाधव

वर्ग :- द्वितीय वर्ष कला (S.Y.BA)

पेपर क्रमांक :- २

विभाग :- मराठी

अ.क्र.	माहिना	तासिका	घटक-उपघटक (सत्र १)
१	जुलै	१४	घटक-१ — कादंबरी एक साहित्यप्रकार मराठी कादंबरीचा इतिहास, कादंबऱ्यांचे प्रकार, लघुकादंबरी दिवे कादंबरी, भारतातील स्वातंत्र्यपूर्व काळातील मराठी कादंबऱ्या
२	ऑगस्ट	१६	'थॅक्यू मिस्टर ग्लाड घटक २ कादंबरीचे कथानक, विषय, कादंबरीतील पात्र कादंबरीतील वातावरण, कादंबरीची भाषाशैली
३	सप्टेंबर	१५	घटक-३ 'दिवे गेलंलं दिवस' कादंबरी 'आणिबाणो आणि भारत' समाजवादी पक्ष, 'दिवे गेलंलं दिवस' या कादंबरीचे कथानक, कादंबरीची भाषाशैली, कादंबरीतील पात्र, कादंबरीतील विविध पात्र
४	ऑक्टोबर	०९	सनकालीन कादंबरीतील वास्तव कादंबरीतील विविध व्यक्तिरेखा
सत्र २			
५	नोव्हेंबर	०५	घटक-१ आत्मकथन संकल्पना व स्वरूप
६	डिसेंबर	१५	आत्मकथन या साहित्यप्रकाराचा ठळक वैशिष्ट्ये आत्मचरित्र आणि आत्मकथन : तात्त्विक चार, आत्मचरित्र व चरित्र यांच्यातील परस्परसंबंध आत्मचरित्राची लेखनसामग्री
७	जानेवारी	१६	आत्मकथन 'मन मे हे विश्वास' (घटक-२) आत्मकथनाचे कथानक, आत्मकथनातील अनुभव विश्व आत्मकथनाच्या अनुभवाविश्वातील वैयक्तिक, कौटुंबिक, सामाजिक शैक्षणिक विचार
८	फेब्रुवारी	१५	घटक- ३- आत्मकथन 'जस घडलं तसं' 'जस घडलं तसं' या आत्मकथाच्या मागील प्रेरणा 'जस घडलं तसं' या आत्मकथनाचे कथानक आत्मकथनातील विविध व्यक्ती व्यक्तित्वरेखा
९	मार्च	०७	'जस घडलं तसं' या आत्मकथनातील समाजदर्शन

विषयाशिक्षक

विभागप्रमुख

प्रमुख

सु. ए. सा. धे. शि. म. दादासाहेब लिमये
कला वाणिज्य विज्ञान महाविद्यालय
कळंबोली ता. घनोली जि. —

सुभाषगड एज्युकेशन सोसायटी

शिक्षणमंडळी दादासाहेब लिमये, गवला, पाणिपत्य आणि चिदान गवलाविद्यालय, कळंबोली

अभ्यासक्रम नियोजन:- शैक्षणिक वर्ष :- 2020-2021

विषय शिक्षकाचे नाव:- डा. रमेश दलभिम जाधवर

वर्ग :- तृतीय वर्ष कला

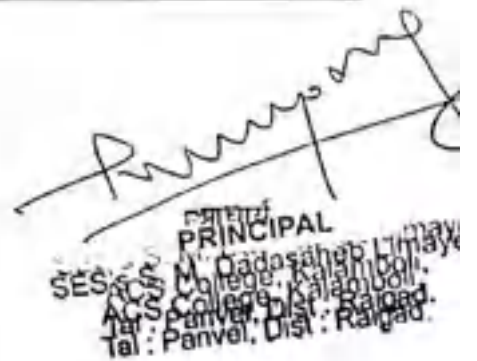
विषय :- भारतीय व पाश्चात्य साहित्यशास्त्र

विभाग :- मराठी

अ. क्र	माहिना	तारिका	घटक - उपघटक
सत्र - ५			
१	जून	१५	घटक - १ - भारतीय साहित्यशास्त्र उपघटक - १ - भारताचे रसरसूत्र रीतीविचार, अलंकारविचार औचित्यविचार.
२	जुलै	१६	घटक - २ - भारतीय साहित्यशास्त्र: साहित्याचा अस्वाद. उपघटक - १ - अभिनय गुप्त, भटनायक
३	ऑगस्ट	१४	घटक - ३ - भारतीय साहित्यशास्त्र: साहित्यभाषेचे स्वरूप व कार्य. उपघटक - १ - शब्दशक्ती अभिधा, लक्षणा व व्यंजना
४	सप्टेंबर	१०	घटक - ३ - भारतीय साहित्यशास्त्र: निर्मितीप्रक्रिया व प्रयोजन विचार. उपघटक - १ - प्रतिभा, व्युत्पत्ती व अभ्यास भारतीय साहित्याची प्रयोजने
५	ऑक्टोबर	१०	अभ्यासक्रम पूर्ण करून परिक्षा व मार्गदर्शन
सत्र - ६			
६	नोव्हेंबर	०४	घटक - १ - पाश्चात्य साहित्यविचार: साहित्याचे स्वरूप. उपघटक - १ - प्लेटो व ऑरिस्टॉटल रूपक, प्रतिक व प्रतिमा
७	डिसेंबर	१२	घटक - २ - पाश्चात्य साहित्यविचार: साहित्याची भाषा. उपघटक - १ - अनेकार्थता, नियमोल्लंघन
८	जानेवारी	१६	घटक - ३ - पाश्चात्य साहित्यविचार: साहित्याची निर्मिती प्रक्रिया व प्रयोजनाविचार. उपघटक - १ - कोलारीज, जीयनभाष्य.
९	फेब्रुवारी	१६	घटक - ४ - पाश्चात्य साहित्यविचार: साहित्याचा आस्वाद. उपघटक - १ - ऑरिस्टॉटलचा कॅथार्सिसचा सिद्धांत प्रेरणा संतुलनाचा सिद्धांत.
१०	मार्च	१६	अभ्यासक्रम पूर्ण करून परिक्षा व मार्गदर्शन


विषय शिक्षक


विभाग प्रमुख


PRINCIPAL
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ACS College, Kalamboli.
Tal: Panvel, Dist: Raigad.

सुधागड एज्युकेशन सोसायटी
शिक्षणमहर्षी दादाराहेब लिमये, कला, वाणिज्य आणि विज्ञान महाविद्यालय, कळंबोली
अभ्यासक्रम नियोजन:- शैक्षणिक वर्ष :- 2020-2021


विषय शिक्षकाचे नाव :- डी. रमेश बलभिम जाधवर

वर्ग :- तृतीय वर्ष कला


विषय :- मध्ययुगीन मराठी वाङ्मयाचा इतिहास पेपर क्रमांक ४

विभाग :- मराठी

अ. क्र	महिना	तसिका	घटक - उपघटक
सत्र - ५			
१	जून	१५	घटक - १ - मराठी साहित्याची सुरुवात व महानुभाव वडमय. उपघटक - १ - मराठीतील आद्य ग्रंथ चर्चा शिलातेख तामपट यावरील मराठी लेखन थोडक्यात परिचय महानुभाव संवाचाची रुळक वैशिष्ट्ये.
२	जुलै	१६	घटक - २ - वारकरी पंथ्याचे वाङ्मय. उपघटक - १ - यादवकालीन महाराष्ट्र वारकरी पंथाची प्रस्थापना महाराष्ट्रातील श्रमूख संवाच ज्ञानदेव, नामदेव व इतर संत.
३	ऑगस्ट	१४	घटक - ३ - वारकरी पंथ्याचे वाङ्मय. उपघटक - १ - बळमनी राजवट एकनाथ कालीन महाराष्ट्र एकनाथ पंथक संत तुकाराम व इतर संत कवी.
४	सप्टेंबर	१०	घटक - ४ - पंडिती काव्य. उपघटक - १ - पंडिती काव्याची स्वरूप वैशिष्ट्ये पंडित कवी वामनपंडित मोरोपंत
५	ऑक्टोबर	१०	अभ्यासक्रम पूर्ण करून परिक्षा व मार्गदर्शन
सत्र - ६			
६	नोव्हेंबर	०४	घटक - १ - शहरी वाङ्मय. उपघटक - १ - लावणी, पोवाडे शाहीर होणाजीबाळा, रामजोशी, प्रभाकर.
६	डिसेंबर	१२	घटक - २ - महानुभाव व वारकरी याखेरीज उपघटक - १ - लावणी, पोवाडे शाहीर होणाजीबाळा, रामजोशी, प्रभाकर.
७	जानेवारी	१६	घटक - ३ - हिंदू धर्माखेरीज इतर धर्मियांनी केलेली उपघटक - १ - ख्रिस्ती धर्मियांनी केलेली वडमयनिर्मिती. रामजोशी, प्रभाकर.
८	फेब्रुवारी	१६	घटक - ४ - बखर गद्याची स्वरूप वैशिष्ट्ये. उपघटक - १ - शिवपूर्वकालीन, शिवकालीन.
९	मार्च	१६	अभ्यासक्रम पूर्ण करून परिक्षा व मार्गदर्शन


विषय शिक्षक


विभाग प्रमुख


PRINCIPAL
JES's S. M. Dadasaheb Limay
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

सुधागड एज्युकेशन सोसायटी

शिक्षणमहारी दादासाहेब लिमटेड, कला वाणिज्य आणि

विज्ञान महाविद्यालय, कळंबोली

अभ्यासक्रम नियोजन : शैक्षणिक वर्ष : २०२०-२०२१

विषय :- शिक्षकाचे नाव :- डॉ. रमेश बलभीम जाधवर

वर्ग :- तृतीय वर्ष कला (T.Y.BA)

विषय :- मराठी (O/T)

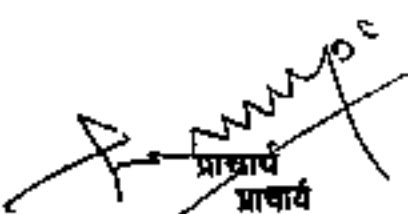
पेपर क्रमांक : VI साहित्य आणि समाज

अ.क्र.	महिना	तासिका	घटक-उपघटक (सत्र १)
१	जुलै	१६	घटक क्रमांक १, साहित्य-समाज अन्योन्य संबंध अ) साहित्य, समाज, संस्कृती या संकल्पना व त्यांच्या परस्परसंबंधांचे स्वरूप. विविध व्याख्या
२	ऑगस्ट	१५	ब) साहित्य-समाज संबंध- तेन मावस यांचे सिद्धांत. मानवतावाद, मावसवाद, स्त्रीवाद, आधुनिकवाद यांचे स्वरूप विशेष
३	सप्टेंबर	१६	घटक क्रमांक - स्त्रीवादी जाणिवेचे साहित्य अ) स्त्रीवादी साहित्याची संकल्पना व मराठीतील परंपरा, स्त्रीवादी साहित्याची प्रेरणा व स्वरूप ब) 'भिन्न' कविता महाजन यांची कादंबरी मराठी साहित्यातील 'भिन्न' या कादंबरीचे स्थान, विविध पात्र, कथानक, भाषाशैली
४	ऑक्टोबर	१०	घटक क्रमांक ३- महानगरी जाणिवेचे साहित्य अ) महानगरी जाणिवेचे साहित्य संकल्पना व महाराष्ट्रातील परंपरा ब) 'दृश्य नसलेल्या दृश्यात' दिनकर मनवर
सत्र-२			
५	नोव्हेंबर	०७	प्रकल्प अहवाल मार्गदर्शन परिक्षा तयारी, सरावपरिक्षा
६	डिसेंबर	१६	घटक क्रमांक १ सामाजिक स्थित्यंतर आणि मराठी साहित्य अ) महाराष्ट्रातील सामाजिक स्थित्यंतर आणि मराठी साहित्य-मागोवा ब) साहित्य-समाज संबंध

१	ज्ञानेश्वरी	१६	<p>य) १) साहित्य- समाज संबंध - ग.वा.सरदार व बाबुराव वागुल यांच्या लेखाधारे</p> <p>२) संत साहित्याची सामाजिक फलश्रुती : ग.वा.सरदार</p> <p>दलित साहित्य हे तर भाषासांचे साहित्य -</p> <p>बाबुराव वागुल- दलित साहित्य: आजचे क्रांतिविज्ञान</p>
८	फेब्रुवारी	१६	<p>घटक -२ ग्रामीण साहित्य</p> <p>अ) ग्रामीण साहित्य- संकल्पना व मराठीतील परंपरा</p> <p>ब) ऐसे कुणबी मूपाळ- भरतकाळे यांच्या कादंबरीचे वाचन व अभ्यास</p>
९	मार्च	१५	<p>घटक क्रमांक ३ दलित साहित्य</p> <p>अ) दलित साहित्य- संकल्पना व मराठीतील परंपरा</p> <p>ब) जाता नाहो जात : सिद्धार्थ तांणे या नाटकाचे वाचन अभ्यास</p> <p>घटक ४- प्रकल्प अहवाल</p> <p>संबंधित विषयावर</p> <p>परीक्षा मार्गदर्शन</p>


विद्येशिखक


विभागप्रमुख


प्राचार्य
प्राचार्य
डु. पु. सी. वे. वि. म. ददासाहेब
कला, चरित्र, विज्ञान मंडळ
महाराष्ट्र, रा. कलकत्ता, वि. राका

SES's
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli.

Teaching Plan : Academic Year – 2020-21

Name of the Faculty : - Dr. Jadhav B. B.


Class :- F.Y.B.A. Subject :- History

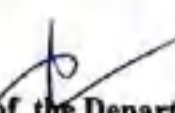
Name of Paper :- History of Modern India (1857-1947)

Department : History

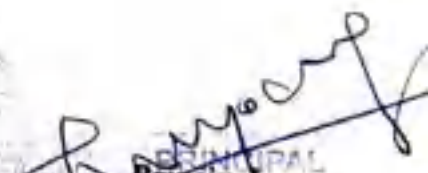
Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	June, July		ADMISSION
2.	August	12	Module I: Growth of Political Awakening (a) Revolt of 1857 – Causes and Consequences (b) Contribution of the Provincial Associations (c) Foundation of Indian National Congress.
3.	September	12	Module II: Trends in Indian Nationalism (a) Moderates (b) Extremists (c) Revolutionary Nationalists
4.	October	12	Module III: Gandhian Movements (a) Non Co-operation Movement (b) Civil Disobedience Movement (c) Quit India Movement
5.	November	12	Module IV: Towards Independence and Partition (a) The Indian Act of 1935 (b) Attempts to Resolve the Constitutional Deadlock -The Cripps Mission, The Cabinet Mission and the Mountbatten Plan (c) Indian Independence Act and Partition
6.	December		College Exam. & University Exam.

SEMESTER – II			
Name of Paper :- History of Modern India: Society and Economy			
7.	January	12	Module I: Socio Religious Reform Movements: Reforms and Revival (a) Brahmo Samaj, Arya Samaj and Ramakrishna Mission (b) Satyashodhak Samaj, Aligarh movement and Singh Sabha Movement. (c) Impact of Reform Movements
8.	February	12	Module II: Education, Press and Transport (a) Introduction of Western Education and its Impact (b) Development of Press (c) Transport and Communications
9.	March	12	Module III: Impact of the British Rule on Indian Economy. (a) Revenue Settlements, Commercialisation of Agriculture (b) Drain Theory (c) Deindustrialisation and Growth of Large Scale Industry
10.	April	12	Module IV: Nationalism and Social Groups: interfaces. (a) Women (b) Dalits (c) Peasants and Tribals
11	May		Revision, Pre. Exam. College Exam. & University Exam.


Subject Teacher


Head of the Department
 Head
 Department of History
 S. M. D. L. College, Kalamboli.




Principal
 S. M. D. L. College, Kalamboli,
 Tal.- Panvel, Dist. - Raigad.

Teaching Plan : Academic Year – 2020-21

Name of the Faculty : - Dr. Jadhav B. B.

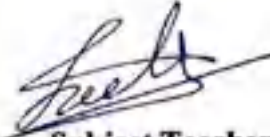
Class :- S.Y.B.A. Subject :- History

Name of Paper :- Landmarks in World History, 1300 A.D.-1945 A.D.

Department : History

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III			
1.	June, July		Admission
2.	August	13	Module I: The Modern Age (a) Renaissance (b) Geographical Discoveries (c) Reformation
3.	September	12	Module II: Age of Revolutions (a) American Revolution (b) French Revolution (c) Industrial Revolution
4.	October	12	Module III: Nationalism and Imperialism (a) Formation of Nation-States in Europe (b) Nationalist Movements in Italy and Germany (c) Imperialist Expansion in Asia
5.	November	12	Module IV: World in Transition (1914-1919) (a) World War I (b) Russian Revolution (c) League of Nations
6.	December		Revision, Pre. Exam. College Exam. & University Exam.

SEMESTER – IV			
Name of Paper :- Landmarks in World History, 1300 A.D.-1945 A.D.			
7.	January	14	Module I: Inter War Period (a) Kemal Pasha and Modernization of Turkey (b) Reza Shah and Reforms in Iran-- (c) Birth of Israel
8.	February	12	Module II: Rise of Dictatorships (a) Fascism (b) Nazism (c) Militarism in Japan
9.	March	12	Module III: World War II and Efforts for Peace (a) World War II (b) The Atlantic Charter (c) United Nations Organization.
10.	April	12	Module IV: Nationalist Movements in Asia (a) Dr. Sun-Yat-Sen and China (b) Mahatma Gandhi and India (c) Dr. Sukarno and Indonesia
11	May		Revision, Pre. Exam. College Exam. & University Exam.


Subject Teacher

  
Head of the Department Principal
Head
Department of History
S. M. D. L. College, Kalambohi.
Tal:- Panvel, Dist. - Raigad.

SES's
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli.

Teaching Plan : Academic Year – 2020-21

Name of the Faculty : - Dr. Jadhav B. B.


Class :- T.Y.B.A. Subject :- History

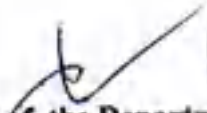
Name of Paper :- History of Modern Maharashtra (1818 CE-1960 CE)

Department : History


Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	June, July		Admission
2.	August	13	Module I: Beginning of the British Rule (a) Socio-Economic conditions of Maharashtra in 19th Century (b) Administration and Judiciary (c) Tribal and Peasant Uprisings
3.	September	12	Module II: Socio- Economic Awakening (a) Mahatma Jotirao Phule - Satya Shodhak Samaj and Universal Humanism (b) Prarthana Samaj (c) Contribution of thinkers of Maharashtra to Economic Nationalism
4.	October	12	Module III: Political Developments in Maharashtra (1885-1960) (a) Moderates, Extremists and Revolutionaries in Maharashtra (b) Response to Gandhian Movements in Maharashtra (c) Samyukta Maharashtra Movement
5.	November	12	Module IV: Emergence of New Forces (a) Contribution of Reformers in Education (b) Contribution of Reformers towards Emancipation of Women (c) Contribution of Reformers towards Upliftment of Depressed Classes: V. R. Shinde, Rajarshi Shahu Maharaj and Dr. B.R. Ambedkar
6.	December		Revision, Pre. Exam. College Exam. & University Exam.

SEMESTER – VI			
Name of Paper :- History of Contemporary India (1947 CE- 2000 CE)			
7.	January	14	Module I: The Nehru Era (1947 CE – 1964 CE) (a) Features of Indian Constitution (b) Integration and Reorganization of Indian States (c) Socio- Economic Reforms and Foreign Policy
8.	February	12	Module II: Political, Social and Economic Developments (1964 CE – 1984 CE) (a) Political Developments after Nehru Era; Green Revolution. (b) Abolition of Privy Purses and Titles; Nationalization of Banks; The Emergency (c) Janata Government; Return of Congress to power ; Foreign Policy
9.	March	12	Module III: Political, Social and Economic Developments (1984 CE – 2000 CE) (a) Political Developments (b) Relations with Neighboring Countries (c) Liberalization, Privatization and Globalization
10.	April	12	Module IV: Emerging Trends (a) Communalism and Separatist Movements (b) Women Empowerment and Policy of Reservation (c) Science, Technology and Education
11	May		Revision, Pre. Exam. College Exam. & University Exam.


Subject Teacher


Head of the Department
 Head
 Department of History
 S. M. D. L. College, Kalamboli.




Principal
 S. M. D. L. College, Kalamboli
 Tal.- Panvel, Dist. - Raigad.

SES's
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli.

Teaching Plan : Academic Year – 2018-19

Name of the Faculty : - Dr. Jadhav B. B.

Class :- T.Y.B.A. Subject :- History

Name of Paper :- Core Course VII- History of the Marathas (1630 CE – 1707CE)

Department : History

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	June, July		Admission
2.	August	13	Module I: Introduction to Maratha History (a) Marathi, Persian and European Sources (b) Deccan in the 17th century – Geo-Political and Economic conditions (c) Socio-Cultural conditions; Maharashtra Dharma
3.	September	12	Module II: Establishment of Swarajya (a) Shivaji's relations with Bijapur (b) Shivaji's relations with the Mughals (c) Shivaji's relations with the Europeans
4.	October	12	Module III: Period of Consolidation and Crisis (a) Coronation and its significance; Shivaji's Karnatak Campaign (b) Sambhaji, Rajaram and Tarabai (c) Civil War : Tarabai and Shahu
5.	November	12	Module IV: Administration during the Royal Period (a) Civil Administration (b) Revenue and Judicial Administration (c) Military Administration
6.	December		Revision, Pre. Exam. College Exam. & University Exam.

SEMESTER - VI

Name of Paper :- Core Course VII: History of the Marathas (1707 CE - 1818 CE)

7.	January	14	Module I: Expansion of the Maratha Power (a) Rise of the Peshwas: Balaji Vishwanath (b) Peshwa Bajirao I (c) Maratha Confederacy
8.	February	12	Module II: Consolidation of the Maratha Power (a) Peshwa Balaji Bajirao (Nanasaheb) (b) Third Battle of Panipat: causes and consequences (c) Defeat of the Marathas and significance of the Third Battle of Panipat
9.	March	12	Module III: Post Panipat Revival and Downfall (a) Peshwa Madhavrao I (b) Barabhai Council (c) Downfall of the Maratha Power
10.	April	12	Module IV: Administrative and Socio-Cultural Developments (a) Peshwa Administration: Civil, Revenue and Military (b) Society under the Peshwas -- Religion, Caste and Position of Women (c) Cultural Developments: Literature, Art and Architecture
11	May		Revision, Pre. Exam. College Exam. & University Exam.


Subject Teacher


Head of the Department

Head
Department of History
S. M. D. L. College Kalamboli

SE.

Principal

Tal. - Panvel, Dist. - Raigad.

SES's
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalemboli.

Teaching Plan : Academic Year – 2018-19

Name of the Faculty : - Dr. Jadhav B. B.

Class :- T.Y.B.A. Subject :- History

Name of Paper :- Elective Course IX A - Research Methodology and Sources of History


Department : History

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	June, July		Admission
2.	August	13	Module I: History: Definition and Scope (a) History: Meaning, Scope and Nature (b) Importance of History (c) History and Auxiliary Sciences
3.	September	12	Module II: Sources of History (a) Sources: Nature and Types (b) Authenticity and Credibility of Sources (c) Importance of Archival Sources
4.	October	12	Module III: Research Methods in History (a) Methods of Data Collection (b) Interpretation and Generalization of Sources (c) Footnotes and Bibliography
5.	November	12	Module IV: Sources for Writing Indian History (a) Sources for Ancient Indian History (b) Sources for Medieval Indian and Maratha History (c) Sources for Modern and Contemporary Indian History
6.	December		Revision, Pre. Exam. College Exam. & University Exam.

SEMESTER – VI

Name of Paper :- Elective Course IX A - Research Methodology and Sources of History

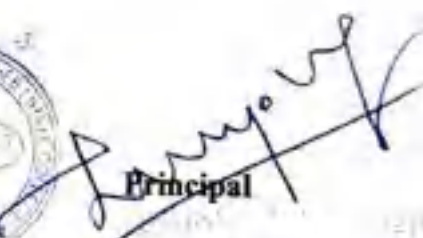
7.	January	14	Module I: Historical Research: Methods and Presentation (a) Steps in Historical Research (b) Methods of Critical Enquiry (c) Presentation of Historical Research
8.	February	12	Module II: New Trends in History (a) Local History (b) Oral History (c) Digital and E-Sources
9.	March	12	Module III: Approaches to History (a) Subaltern (b) Feminist (c) Post-Modern
10.	April	12	Module IV: Indian Historiography (a) Imperialist (b) Nationalist (c) Marxist
11	May		Revision, Pre. Exam. College Exam. & University Exam.


Subject Teacher


Head of the Department

Head
Department of History
S. M. D. L. College, Kalamboli




Principal
SET
Tal. - Panvel, Dist. - Raigad.

SUS'S

Shikshan Maharshi Dadasaheb Limaye, Art's, Commerce & Science College, Kalamboli

Teaching Plan : Academic Year :- 2020-2021

Name of the faculty: Mrs. Salunkhe Vasundhara Salunkhe

Class: S.Y B.A

Course: Introduction To Advertising

Subject: Advertising -I & II

Department: ECONOMICS

Sr. No.	Month	Availa ble Period	Topic / Sub. Topic to be Taught
SEMESTER-III Introduction To Advertising-I			
1	August	12	1. <u>Introduction to Advertising</u> <ul style="list-style-type: none"> • Integrated Marketing Communications (IMC)- Concept, Features, Elements, Role of advertising in IMC • Advertising: Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers. • Classification of advertising: Geographic, Media, Target audience and Functions.
2	September	17	2. <u>Advertising Agency</u> <ul style="list-style-type: none"> • Ad Agency: Features, Structure and services offered, Types of advertising agencies , Agency selection criteria • Agency and Client: Maintaining Agency-Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation • Careers in advertising: Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modeling, Dubbing.
3	October	17	3. <u>Economic & Social Aspects of Advertising</u> <ul style="list-style-type: none"> • Economic Aspects: Effect of advertising on consumer demand, monopoly and competition, Price. • Social aspects: Ethical and social issues in advertising,



			<p>positive and negative influence of advertising on Indian values and culture.</p> <ul style="list-style-type: none"> • Pro Bono/Social advertising: Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body- Role of ASCI (Advertising Standard Council of India) <p>4. <u>Brand Building and Special Purpose Advertising</u></p> <ul style="list-style-type: none"> • Brand Building: The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises.
4	November	04	<ul style="list-style-type: none"> • Special purpose advertising: Rural advertising, Political advertising-, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising.
5	December	05	<ul style="list-style-type: none"> • Trends in Advertising: Media, Ad spends, Ad Agencies, Execution of advertisements

SEMESTER-IV Introduction To Advertising II

6	January	17	<p>1. <u>Media in Advertising</u></p> <ul style="list-style-type: none"> • Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media • New Age Media: Digital Media / Internet Advertising – Forms, Significance and Limitations • Media Research: Concept, Importance, Tool for regulation - ABC and Doordarshan Code <p>2. <u>Planning Advertising Campaigns</u></p> <ul style="list-style-type: none"> • Advertising Campaign: Concept, Advertising Campaign Planning -Steps Determining advertising objectives - DAGMAR model
7	February	15	<ul style="list-style-type: none"> • Advertising Budgets: Factors determining advertising budgets, methods of setting advertising budgets, Media Objectives - Reach, Frequency and GRPs • Media Planning: Concept, Process, Factors considered while selecting media, Media Scheduling Strategies <p>3. <u>Fundamentals of Creativity in Advertising</u></p> <ul style="list-style-type: none"> • Creativity: Concept and Importance, Creative Process,



8	March	17	<p>Concept of Creative Brief, Techniques of Visualization.</p> <ul style="list-style-type: none"> • Creative aspects: Buying Motives - Types, Selling Points- Features, Appeals - Types, Concept of Unique Selling Proposition (USP) • Creativity through Endorsements: Endorsers - Types, Celebrity Endorsements - Advantages and Limitations, High Involvement and Low Involvement Products <p>4. Execution and Evaluation of Advertising</p> <ul style="list-style-type: none"> • Preparing print ads: Essentials of Copywriting, Copy - Elements, Types, Layout- Principles, Illustration - Importance.
9	April	08	<ul style="list-style-type: none"> • Creating broadcast ads: Execution Styles, Jingles and Music - Importance, Concept of Storyboard • Evaluation: Advertising copy <p>Pre-testing and Post-testing of Advertisements - Methods and Objectives</p>

Vasanth
Subject Teacher

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Head
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Sr. Phase, Dist. Tirupur



SLB's

Shrikrishna Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year - 2020-21

Name of the Faculty :- Salunkhe Vasundhara Dattaraj

Class :- S.Y.B.A.

Sub :- Public Economics & Indian Economy

Department : ECONOMICS

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III (Public Economics) Paper No IV			
1.	August	09	Unit - I Introduction Meaning and Scope of Public Finance; Public Finance versus Private Finance; Market Failure: Public Goods and Private Goods, Externalities, Efficiency versus Equity; Principles of Sound Finance and Functional Finance; Allocation, Distribution
2.	September	13	Stabilization and Growth Functions of the Government Unit - II Fiscal Policy: Budget and Taxation Dalton's and Musgrave Versions of the Law of Maximum Social Advantage; Role of Government in a Modern Economy; Types of Public Budget; Structure of Public Budget; Role of Taxation; Merits and Demerits of Direct and Indirect Tax Policy; Features of Good Tax System; Concept of Impact, Incidence and Shifting of Taxation
3.	October	14	Elasticity and Determination of Tax Burden Unit III Fiscal Policy: Public Expenditure and Debt Canons of Public Expenditure; Classification of Public Expenditure; Wagner's Law of Public Expenditure; Public Expenditure as an Instrument of Fiscal Policy; Meaning and Types of Public Debt; Burden of Public Debt; Principles of Public Debt Management Concepts of Deficits
4.	November	05	Unit IV Indian Public Finance Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax And Non-Tax, Introduction To GST); Components of Public
5.	December		Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits, Appraisal of FRBM Act 2004; Fiscal Federalism; Fourteenth Finance Commission Recommendations
SEMESTER - IV (Indian Economy) Paper No . VI			
6.	January	14	Module- I: Introduction Trends in India's National Income and PCI Since 1990; Structural Changes In Indian Economy; Brief Overview of the Employment Generation and Poverty Alleviation



			Programmes; Regional Inequalities; Measures to Reduce Regional Inequalities in India Module - II: Agricultural Sector Role of Agriculture in Economic Development; Causes of Low Productivity
7.	February	11	Agricultural Inputs; Agricultural Price Policy; Recent Minimum Support Price Policy; Income Support for Farmers; Sources of Agricultural Finance; Micro Finance, NABARD; Role and Function; Agricultural Marketing; Structure and Problems; National Policy for Farmers, 2007; Organic Farming Policy; Food Security in India Module - III: Industrial Sector Infrastructure for Industrial Development
8.	March	13	Industrial Policies in India; Industrial Policy of 1991; Micro, Small and Medium Enterprises (MSMEs); Classification, Role and Policy Measures; Growth of Large Scale Industries and Economic Development; Recent Policies and Programs for Industrial Development: Start Up India, Make in India, Skill India; Role and Trends of FDI in Industrial Sector Development Module - IV: Service Sector Role of Service Sector in Indian Economy; Growth and Performance of Healthcare
9.	April	08	Performance of Trade and Tourism, Information Technology and IT - Enabled Services; Research and Development Services With Reference to Education and Skill Development in Employment Generation in India; Performance of Service Sector during XII th Five Year Plan

Wadhvani
Subject Teacher

Swing
Head of the Department

Principals
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College, Kalemboli
Tal : Panvel, Dist : Raigad



Name of the faculty: Mrs. Salunkhe Vasundhara Salunkhe

Class: S.Y.B.A.

Course: Introduction To Advertising

Subject: Advertising -I & II

Department: ECONOMICS

Sr. No.	Month	Available Period	Topic / Sub-Topic to be Taught
SEMESTER-III Introduction To Advertising-I			
1	August	12	1. Introduction to Advertising <ul style="list-style-type: none"> • Integrated Marketing Communications (IMC)- Concept, Features, Elements, Role of advertising in IMC • Advertising: Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers. • Classification of advertising: Geographic, Media, Target audience and Functions.
2	September	17	2. Advertising Agency <ul style="list-style-type: none"> • Ad Agency: Features, Structure and services offered, Types of advertising agencies, Agency selection criteria • Agency and Client: Maintaining Agency-Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation • Careers in advertising: Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modeling, Dubbing.
3	October	17	3. Economic & Social Aspects of Advertising <ul style="list-style-type: none"> • Economic Aspects: Effect of advertising on consumer demand, monopoly and competition, Price. • Social aspects: Ethical and social issues in advertising,

			<p>positive and negative influence of advertising on Indian values and culture.</p> <ul style="list-style-type: none"> • Pro Bono/Social advertising: Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body- Role of ASCI (Advertising Standard Council of India) <p>4. Brand Building and Special Purpose Advertising</p> <ul style="list-style-type: none"> • Brand Building: The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises.
4	November	04	<ul style="list-style-type: none"> • Special purpose advertising: Rural advertising, Political advertising-, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising.
5	December	05	<ul style="list-style-type: none"> • Trends in Advertising: Media, Ad spends, Ad Agencies, Execution of advertisements

SEMESTER-IV Introduction To Advertising II

6	January	17	<p>1. Media in Advertising</p> <ul style="list-style-type: none"> • Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media • New Age Media: Digital Media / Internet Advertising – Forms, Significance and Limitations • Media Research: Concept, Importance, Tool for regulation - ABC and Doordarshan Code <p>2. Planning Advertising Campaigns</p> <ul style="list-style-type: none"> • Advertising Campaign: Concept, Advertising Campaign Planning -Steps Determining advertising objectives - DAGMAR model
7	February	15	<ul style="list-style-type: none"> • Advertising Budgets: Factors determining advertising budgets, methods of setting advertising budgets, Media Objectives - Reach, Frequency and GRPs • Media Planning: Concept, Process, Factors considered while selecting media, Media Scheduling Strategies <p>3. Fundamentals of Creativity in Advertising</p> <ul style="list-style-type: none"> • Creativity: Concept and Importance, Creative Process,

8	March	17	<p>Concept of Creative Brief, Techniques of Visualization</p> <ul style="list-style-type: none"> • Creative aspects: Buying Motives - Types, Selling Points- Features, Appeals - Types, Concept of Unique Selling Proposition (USP) • Creativity through Endorsements: Endorsers - Types, Celebrity Endorsements - Advantages and Limitations, High Involvement and Low Involvement Products <p>4. Execution and Evaluation of Advertising</p> <ul style="list-style-type: none"> • Preparing print ads: Essentials of Copywriting, Copy - Elements, Types, Layout- Principles, Illustration - Importance.
9	April	08	<ul style="list-style-type: none"> • Creating broadcast ads: Execution Styles, Jingles and Music - Importance, Concept of Storyboard • Evaluation: Advertising copy <p>Pre-testing and Post-testing of Advertisements - Methods and Objectives</p>

Became
Subject Teacher

Sujay
Head
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Sujay
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Tal : Panvel, Dist : Raigad

SES's

Shikashmi Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year -2020-2021

Name of the Faculty :- Salunkhe Vasundhara Dattaram

Class :- F.Y.B.A.

Sub :- ECONOMICS I

Department : ECONOMICS

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER – I Microeconomics - I			
1.	September	16	Module - I: Introduction to Microeconomics Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept Module - II: Ten Principles of Economics. Trade-Off Faced by the Individuals; Significance of Opportunity Cost in Decision Making; Thinking at the Margin; Responses to incentives; Benefits from Exchange; Organization of Economic
2.	October	17	Activities through Markets and its Benefits; Role of Government in improving Market Outcomes; Dependence of Standard of Living on Production; Growth in Quantity of Money; Inflation and Unemployment Trade Off Module - III: Markets, Demand and Supply What is a Market; What is Competition. Demand Curves: Market Demand versus Individual Demand Movements along the Demand Curve, Shifts in the Demand Curve; Supply Curves: Market Supply and Individual Supply, Shifts in Supply Curve; Market Equilibrium Three Steps to Analyze Changes in Equilibrium; Price Elasticity of Demand, Methods of Measuring Price Elasticity of Demand-Total Outlay Method, Percentage Method and Point Method, Concepts of Income Elasticity of Demand, Cross Elasticity of Demand and Promotional Elasticity of Demand
3.	November	06	Module IV: Consumer's Behavior Introduction to Cardinal and Ordinal Approaches
4.	December	15	Module IV: Consumer's Behavior Introduction to Cardinal and Ordinal Approaches Indifference



			Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus; Strong Ordering and Weak Ordering
SEMESTER – II Microeconomics - II			
5.	January	04	Module - I: Production Analysis: Concept of Production Function, Types of Production Function
6.	February	15	Cobb-Douglas Production Function, Concepts of Total Average and Marginal Product, Law of Variable Proportion and Returns to Scale, Iso- quants Iso-quants and Producer's equilibrium. Module - II: Cost & Revenue Analysis: Concepts of Cost Social Money and Real Cost, Cost, Private Cost, Explicit and Implicit Cost Opportunity Cost
7.	March	15	Relationship between Average, Marginal and Total Cost, Derivation of Short run and Long run Cost Curve, Concepts of Revenue, Types and Interrelationship. Module - III: Factor Pricing Marginal Productivity Theory of Distribution, Ricardian Theory Of Rent, Modern theory of rent, Quasi rent – Wages Wages, Modern theory of wages, Collective bargaining, Supply Curve of Labour
8.	April	14	Interest- Classical theory of interest, Loanable funds theory of interest, Profit- Risk and uncertainty theory, innovation theory Module IV: Equilibrium in different market structure Concept of equilibrium TR-TC AND MR-MC approach, features of perfect Competition Monopoly and Monopolistic competition and Short run and long run equilibrium of Firm and Industry under each market condition selling cost and wastages under monopolistic competition.

Bolache
Subject Teacher

Swamy
Head of the Department



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College, Kalamboli,
Tal. Panvel, Dist. Raigad.

SES's

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalimboli

Teaching Plan : Academic Year -2020-2021

Name of the Faculty :- Salunkhe Vasundhara Dattaram

Class :- T.Y.B.A.

Sub - ECONOMIC HISTORY OF INDIA:1857-1947 PAPER X

Department : ECONOMICS

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	August	12	Module I: Growth and Structural Change 1857-1947 <ul style="list-style-type: none"> • The state of Indian Economy after 1857 under British Rule • Nature of Communities • Trade and Tariff Policy • Foreign Investment and Exchange Rate Policy • Saving and Investment • Public Finance • Balance of Payments • Great Depression and the Indian Economy.
2.	September	20	Module II: Growth and Structural Change 1857-1947 <ul style="list-style-type: none"> • Trends in Production and Income • Resources, Regional dimensions of agriculture • land, labour and credit markets • forests and forest-indigenous inhabitants • Village commons and pastures • Land use patterns-Jhum Cultivation • Waste lands. Module III: Industry



			<ul style="list-style-type: none"> • Long term patterns of small scale industrialization and its interpretation • handloom, weaving and other industries • labour and capital in traditional small scale industry
3.	October	16	<p>Modern small scale industry- statistical outline of large scale industry</p> <ul style="list-style-type: none"> • stages of industrialization and major industries • labour, finance, Entrepreneurship and management in large scale industry <p>Module IV: Infrastructure, Fiscal and Monetary systems: Impetus- Irrigation-</p> <ul style="list-style-type: none"> • Impetus- Irrigation- Railways- Roads and Inland Waterways- Ports- Post and Telegraph-Power
4.	November	04	<ul style="list-style-type: none"> • Legal- systems Economic policy and policy making • Trade policy- Fiscal systems- Monetary system- prices.
5.	December	06	Revision
SEMESTER - VI DEVELOPMENT THEORY AND EXPERIENCE: PAPER XVII			
6.	January	10	<p>Module I: Demography and Development:</p> <ul style="list-style-type: none"> • Demographic concepts; birth and death rates, age structure, fertility and mortality; • Demographic transitions during the process of development; gender bias in preferences and outcomes and evidence on unequal treatment within households;
7.	February	16	<ul style="list-style-type: none"> • Connections between income, mortality, fertility choices and human capital accumulation <p>Module II: Structural Transformation:</p> <ul style="list-style-type: none"> • The Lewis model -Clark-Fisher model of structural change • Urbanization: Trends and Projections with reference to India Urbanization and Development, Causes of



			<p>urbanization.</p> <ul style="list-style-type: none"> • Urban informal sector; Policies for the urban informal sector • Migration and development, Economic theory of rural-urban migration • Harris-Todaro migration model
8.	March	19	<p>Module III: Land, Labor and Credit Markets:</p> <ul style="list-style-type: none"> • Role of Agriculture in Economic Development, • Market Failure and Agriculture, The distribution of land ownership; Land reform and its effects on productivity; contractual relationships between tenants and landlords; • Land Acquisition; Nutrition and Labour Productivity; Rural Credit Market; • Microfinance; Inter-linkages between Rural Factor Markets. <p>Module IV: The Environment and Development:</p> <ul style="list-style-type: none"> • The core of environmental problems Rural poverty and environmental destruction-industrialization and environmental pollution • Economic models of environmental issues: privately owned resources, common property resources, public goods.
9.	April	05	<ul style="list-style-type: none"> • Regional environmental degradation and the free rider problem, limitations of public goods framework.

Veerane
Subject Teacher

Swamy
Head of the Department

Principals
Principal
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Shikshan Mahārshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamoli,
Teaching Plan : Academic Year -2020-2021

Name of the Faculty :- Salunkhe Vasundhara Dattaram

Class :- T.Y.B.A.

Sub :- HISTORY OF ECONOMIC THOUGHT: PAPER XII

Department : ECONOMICS

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	August	10	Module II: Classical Period <ul style="list-style-type: none"> Adam Smith - division of labour, theory of values, capital accumulation, distribution. David Ricardo- Value, theory of rent, distribution Karl Marx - dynamics of social changes, Theory of values, surplus value, profit and crisis of capitalism and
2.	September	12	Contemporary Relevance Module II: Marginalist : Marshall To Schumpeter <ul style="list-style-type: none"> Role of time in price determination , Economics methods, ideas of consumer's surplus, representative firm, external and internal economies, Quasi-rent, nature of profit; Pigou : welfare economics:
3.	October	12	Schumpeter: role of entrepreneur and innovation. Module III: Keynesian Ideas: <ul style="list-style-type: none"> Liquidity Preference Theory and Liquidity trap, Consumption Function, MPC, Multiplier & Accelerator principles and their interaction, wage rigidities, underemployment equilibrium, role of fiscal policy: deficit spending and public works, multiplier principles, cyclical behaviour of the economy. Module IV: Post- Keynesian Developments: <ul style="list-style-type: none"> Hayek – Supply side economics: Arthur Laffer, Evans
4.	November	05	<ul style="list-style-type: none"> Monetarism: Milton Friedman's Don Patinkin – An overview of the new classical economics : Robert Lucas. Nobel Prize Winners in Economics A. K. Sen (1998), Joseph Stiglitz (2001),



			<ul style="list-style-type: none"> • Paul Krugman (2008), • Jean Tirole (2014), Angus Deaton (2015), • Richard Thaler (2017)
5.	December	09	<ul style="list-style-type: none"> • Richard Thaler (2017) Revision
SEMESTER – VI INTERNATIONAL TRADE, POLICY AND PRACTICE PAPER XVIII			
6.	January	10	Module I : Introduction <ul style="list-style-type: none"> • Inter regional and international trade, Role of Dynamic Factors i.e. change in Tariffs, Technology and Role of Factor Accumulation. • Foreign Exchange Rate: Concepts - Short and Forward rates - Foreign Exchange rate determination • Fixed and flexible exchange rate • Interrelationship between exchange rates and interest rates. • Exchange Rate system in India, managed floating, • Interrelationship between exchange rates and interest rates.
7.	February	11	Current and Capital Account Convertibility and their impact, FEMA. Module II : Emerging new International Economic <ul style="list-style-type: none"> • GATT, Uruguay Round, WTO, WTO Agreement, Dispute settlement Mechanism • impact of WTO on Emerging Economies and India, Doha Round and implications of its failure. • Emergence of Regional Free Trade agreements (FTA) • Bilateral Investment Treaty (BIT)
8.	March	11	<ul style="list-style-type: none"> • Double Taxation Avoidance Agreement (DTAA). Module III : International Financial Institutions and International Debt Problem. <ul style="list-style-type: none"> • IMF, World Bank, Asian Development Bank (ADB) – New Development Bank (NDB), Asia Infrastructure Investment



			<p>Bank (AIIB) and their role with special reference to India</p> <ul style="list-style-type: none"> • South East Asian Crisis and Lessons for India, Global Economic Crisis • Global Financial Crisis of 2008, International Debt Problem <p>Emerging Global Financial Architecture.</p> <ul style="list-style-type: none"> • Global Financial Crisis of 2008, International Debt Problem <p>Module IV: Role of Foreign Capital Flow</p> <ul style="list-style-type: none"> • Factors determining Foreign Investment, Foreign Institutional Investment (FII), Qualified • Foreign Investment (QFI), Foreign Portfolio Investment (FPI), Role of FDI in Economic •
9	April	07	<p>Emerging Global Financial Architecture.</p> <ul style="list-style-type: none"> • Development- Factors influencing FDI inflows- Green Field and Brown field FDI in India

Belckne

Subject Teacher

Gujju

Head of the Department

Amranga

Principal
PRINCIPAL

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Tal. Parvat, Dist. Raigad.



SES's

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year -2020-2021

Name of the Faculty : - Salunkhe Vasundhara Dattaram

Class :- F.Y.B.A.

Sub :- ECONOMICS I

Department : ECONOMICS

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER – I Microeconomics - I			
1.	September	16	Module - I: Introduction to Microeconomics Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept Module - II: Ten Principles of Economics Trade-Off Faced by the Individuals; Significance of Opportunity Cost in Decision Making; Thinking at the Margin; Responses to incentives; Benefits from Exchange; Organization of Economic
2.	October	17	Activities through Markets and its Benefits; Role of Government in improving Market Outcomes; Dependence of Standard of Living on Production; Growth in Quantity of Money; Inflation and Unemployment Trade Off Module - III: Markets, Demand and Supply What is a Market; What is Competition; Demand Curves: Market Demand versus Individual Demand Movements along the Demand Curve, Shifts in the Demand Curve; Supply Curves: Market Supply and Individual Supply, Shifts in Supply Curve; Market Equilibrium Three Steps to Analyze Changes in Equilibrium; Price Elasticity of Demand, Methods of Measuring Price Elasticity of Demand – Total Outlay Method, Percentage Method and Point Method; Concepts of Income Elasticity of Demand, Cross Elasticity of Demand and Promotional Elasticity of Demand
3.	November	06	Module IV: Consumer's Behavior Introduction to Cardinal and Ordinal Approaches
4.	December	15	Module IV: Consumer's Behavior Introduction to Cardinal and Ordinal Approaches Indifference

			Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering
SEMESTER – II Microeconomics - II			
5.	January	04	Module - I: Production Analysis: Concept of Production Function, Types of Production Function
6.	February	15	Cobb-Douglass Production Function. Concepts of Total Average and Marginal Product, Law of Variable Proportion and Returns to Scale, Iso- quants Iso-quants and Producer's equilibrium. Module - II: Cost & Revenue Analysis: Concepts of Cost Social Money and Real Cost Cost, Private Cost , Explicit and Implicit Cost Opportunity Cost
7.	March	15	Relationship between Average , Marginal and Total Cost, Derivation of Short run and Long run Cost Curve, Concepts of Revenue, Types and Interrelationship. Module - III: Factor Pricing Marginal Productivity Theory of Distribution, Ricardian Theory Of Rent, Modern theory of rent , Quasi rent – Wages Wages, Modern theory of wages, Collective bargaining, Supply Curve of Labour
8.	April	14	, Interest- Classical theory of interest, Loanable funds theory of interest, Profit- Risk and uncertainty theory , innovation theory Module IV: Equilibrium in different market structure Concept of equilibrium TR-TC AND MR-MC approach, features of perfect Competition Monopoly and Monopolistic competition and Short run and long run equilibrium of Firm and Industry under each market condition selling cost and wastages under monopolistic competition.

Beene
Subject Teacher

guy
Head
Head of the Department
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[Signature]
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S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli.
Tal : Panvel, Dist : Raigad.

Name of the Faculty :- SahunkeVasundharaDattaram

Class :- S.Y.B.A.

Sub :- Advertising I&II

Department :-Commerce

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III			
1.	August	12	1 Introduction to Advertising <ul style="list-style-type: none"> • Integrated Marketing Communications (IMC): Concept, Features, Elements, Role of advertising in IMC • Advertising: Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers. • Classification of advertising: Geographic, Media, Target audience and Functions.
2.	September	17	2 Advertising Agency <ul style="list-style-type: none"> • Ad Agency: Features, Structure and services offered, Types of advertising agencies , Agency selection criteria • Agency and Client: Maintaining Agency-Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation • Careers in advertising: Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modeling, Dubbing.
3.	October	17	3 Economic & Social Aspects of Advertising <ul style="list-style-type: none"> • Economic Aspects: Effect of advertising on consumer demand, monopoly and competition, Price. • Social aspects: Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture. • Pro Bono/Social advertising: Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body- Role of ASCI (Advertising Standard Council of India)
4.	November	06	4 Brand Building and Special Purpose Advertising <ul style="list-style-type: none"> • Brand Building: The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises. • Special purpose advertising: Rural advertising, Political advertising-, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising. • Trends in Advertising: Media, Ad spends, Ad Agencies, Execution of advertisements
5.	December		
SEMESTER - IV			

6.	January	10	1 Media in Advertising <ul style="list-style-type: none"> • Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media • New Age Media: Digital Media / Internet Advertising - Forms, Significance and Limitations • Media Research: Concept, Importance, Tool for regulation - ABC and Doordarshan Code
7.	February	13	ABC and Doordarshan Code 2 Planning Advertising Campaigns <ul style="list-style-type: none"> • Advertising Campaign: Concept, Advertising Campaign Planning - Steps Determining advertising objectives - DAGMAR model • Advertising Budgets: Factors determining advertising budgets, methods of setting advertising budgets, Media Objectives - Reach, Frequency and GRPs • Media Planning: Concept, Process, Factors considered while selecting media, Media Scheduling Strategies
8.	March	16	3 Fundamentals of Creativity in Advertising <ul style="list-style-type: none"> • Creativity: Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization • Creative aspects: Buying Motives - Types, Selling Points-Features, Appeals - Types, Concept of Unique Selling Proposition (USP) • Creativity through Endorsements: Endorsers - Types, Celebrity Endorsements - Advantages and Limitations, High Involvement and Low Involvement Products
9.	April	15	4 Execution and Evaluation of Advertising <ul style="list-style-type: none"> • Preparing print ads: Essentials of Copywriting, Copy - Elements, Types, Layout- Principles, Illustration - Importance. • Creating broadcast ads: Execution Styles, Jingles and Music - Importance, Concept of Storyboard
10.	May	04	<ul style="list-style-type: none"> • Evaluation: Advertising copy, Pre-testing and Post-testing of Advertisements - Methods and Objectives

Vedant
Subject Teacher

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Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year – 2020- 21

Name of the Faculty : - Salunkhe Vasundhara Dattaram

Class :- S.Y.B.A.

Sub :- Public Economics & Indian Economy

Department : ECONOMICS

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER – III (Public Economics) Paper No IV			
1.	August	09	Unit – I Introduction Meaning and Scope of Public Finance; Public Finance versus Private Finance; Market Failure; Public Goods and Private Goods, Externalities, Efficiency versus Equity; Principles of Sound Finance and Functional Finance; Allocation, Distribution
2.	September	13	Stabilization and Growth Functions of the Government Unit - II Fiscal Policy: Budget and Taxation Dalton's and Musgrave Versions of the Law of Maximum Social Advantage; Role of Government in a Modern Economy; Types of Public Budget; Structure of Public Budget; Role of Taxation; Merits and Demerits of Direct and Indirect Tax Policy; Features of Good Tax System; Concept of Impact, Incidence and Shifting of Taxation
3.	October	14	Elasticity and Determination of Tax Burden Unit III Fiscal Policy: Public Expenditure and Debt Canons of Public Expenditure; Classification of Public Expenditure; Wagner's Law of Public Expenditure; Public Expenditure as an Instrument of Fiscal Policy; Meaning and Types of Public Debt; Burden of Public Debt; Principles of Public Debt Management Concepts of Deficits
4.	November	05	Unit IV Indian Public Finance Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax And Non-Tax, Introduction To GST); Components of Public
5.	December		Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth Finance Commission Recommendations
SEMESTER – IV (Indian Economy) Paper No . VI			
6.	January	14	Module- I: Introduction Trends in India's National Income and PCI Since 1990; Structural Changes In Indian Economy; Brief Overview of the Employment Generation and Poverty Alleviation

			Programmes; Regional Inequalities; Measures to Reduce Regional Inequalities in India Module - II: Agricultural Sector Role of Agriculture in Economic Development; Causes of Low Productivity
7.	February	11	Agricultural Inputs; Agricultural Price Policy: Recent Minimum Support Price Policy; Income Support for Farmers; Sources of Agricultural Finance; Micro Finance; NABARD: Role and Function; Agricultural Marketing: Structure and Problems; National Policy for Farmers, 2007; Organic Farming Policy; Food Security in India Module -III: Industrial Sector Infrastructure for Industrial Development
8.	March	13	Industrial Policies in India; Industrial Policy of 1991; Micro, Small and Medium Enterprises (MSMEs): Classification, Role and Policy Measures; Growth of Large Scale Industries and Economic Development; Recent Policies and Programs for Industrial Development: Start Up India, Make in India, Skill India; Role and Trends of FDI in Industrial Sector Development Module -IV: Service Sector Role of Service Sector in Indian Economy; Growth and Performance of Healthcare
9.	April	08	Performance of Trade and Tourism, Information Technology and IT - Enabled Services; Research and Development Services With Reference to Education and Skill Development in Employment Generation in India; Performance of Service Sector during XII th Five Year Plan

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Teaching Plan : Academic Year -2020-2021

Name of the Faculty :- Salunkhe Vasundhara Dattaram

Class :- T.Y.B.A

Sub :- **ECONOMIC HISTORY OF INDIA:1857-1947 PAPER X**

Department : **ECONOMICS**

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	August	12	Module I: Growth and Structural Change 1857-1947 <ul style="list-style-type: none">• The state of Indian Economy after 1857 under British Rule• Nature of Communities• Trade and Tariff Policy• Foreign Investment and Exchange Rate Policy• Saving and Investment-• Public Finance• Balance of Payments• Great Depression and the Indian Economy.
2.	September	20	Module II: Growth and Structural Change 1857-1947 <ul style="list-style-type: none">• Trends in Production and Income• Resources, Regional dimensions of agriculture• land, labour and credit markets• forests and forest-indigenous inhabitants• Village commons and pastures• Land use patterns-Jhum Cultivation• Waste lands. Module III: Industry

3.	October	16	<p>Modern small scale industry- statistical outline of large scale industry</p> <ul style="list-style-type: none"> • stages of industrialization and major industries • labour, finance, <p>Entrepreneurship and management in large scale industry</p> <p>Module IV: Infrastructure, Fiscal and Monetary systems:</p> <p>Impetus- Irrigation-</p> <ul style="list-style-type: none"> • Impetus- Irrigation- Railways- Roads and Inland Waterways- Ports- Post and Telegraph-Power
4.	November	04	<ul style="list-style-type: none"> • Legal- systems Economic policy and policy making • Trade policy- Fiscal systems- Monetary system- prices.
5.	December	06	Revision
<p align="center">SEMESTER – VI</p> <p align="center">DEVELOPMENT THEORY AND EXPERIENCE: PAPER XVII</p>			
6.	January	10	<p>Module I: Demography and Development:</p> <ul style="list-style-type: none"> • Demographic concepts; birth and death rates, age structure, fertility and mortality; • Demographic transitions during the process of development; gender bias in preferences and outcomes and evidence on unequal treatment within households;
7.	February	16	<ul style="list-style-type: none"> • Connections between income, mortality, fertility choices and human capital accumulation <p>Module II: Structural Transformation:</p> <ul style="list-style-type: none"> • The Lewis model –Clark-Fisher model of structural change • Urbanization: Trends and Projections with reference to India Urbanization and Development, Causes of urbanization, • Urban informal sector, Policies for the urban informal sector • Migration and development, Economic theory of rural-

			<p>urbanization,</p> <ul style="list-style-type: none"> • Urban informal sector, Policies for the urban informal sector • Migration and development, Economic theory of rural-urban migration • Harris-Todaro migration model
8.	March	19	<p><u>Module III: Land, Labor and Credit Markets:</u></p> <ul style="list-style-type: none"> • Role of Agriculture in Economic Development, • Market Failure and Agriculture, The distribution of land ownership; Land reform and its effects on productivity; contractual relationships between tenants and landlords; • Land Acquisition; Nutrition and Labour Productivity; Rural Credit Market; • Microfinance; Inter-linkages between Rural Factor Markets. <p><u>Module IV: The Environment and Development:</u></p> <ul style="list-style-type: none"> • The core of environmental problems Rural poverty and environmental destruction-industrialization and environmental pollution • Economic models of environmental issues: privately owned resources, common property resources, public goods:
9.	April	05	<ul style="list-style-type: none"> • Regional environmental degradation and the free rider problem, limitations of public goods framework.

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Teaching Plan : Academic Year -2020-2021

Name of the Faculty :- Salunkhe Vasundhara Dattaram

Class :- T.Y.B.A.

Sub :- **HISTORY OF ECONOMIC THOUGHT: PAPER XII**

Department : **ECONOMICS**

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	August	10	<u>Module II: Classical Period</u> <ul style="list-style-type: none"> Adam Smith - division of labour, theory of values, capital accumulation, distribution, David Ricardo- Value, theory of rent, distribution Karl Marx - dynamics of social changes, Theory of values, surplus value, profit and crisis of capitalism and
2.	September	12	Contemporary Relevance <u>Module II: Marginalist : Marshall To Schumpeter</u> <ul style="list-style-type: none"> Role of time in price determination , Economics methods, ideas of consumer's surplus, representative firm, external and internal economies, Quasi-rent, nature of profit; Pigou : welfare economics:
3.	October	12	Schumpeter: role of entrepreneur and innovation. <u>Module III: Keynesian Ideas:</u> <ul style="list-style-type: none"> Liquidity Preference Theory and Liquidity trap, Consumption Function, MPC, Multiplier & Accelerator principles and their interaction, wage rigidities, underemployment equilibrium, role of fiscal policy: deficit spending and public works, multiplier principles, cyclical behaviour of the economy. <u>Module IV: Post- Keynesian Developments:</u> <ul style="list-style-type: none"> Hayek – Supply side economics: Arthur Laffer, Evans
4.	November	05	<ul style="list-style-type: none"> Monetarism: Milton Friedman's Don Patinkin – An overview of the new classical economics : Robert Lucas. Nobel Prize Winners in Economics A. K. Sen (1998), Joseph Stiglitz (2001),

			<ul style="list-style-type: none"> • Paul Krugman (2008), • Jean Tirole (2014), Angus Deaton (2015), • Richard Thaler (2017).
5.	December	09	<ul style="list-style-type: none"> • Richard Thaler (2017). Revision
SEMESTER – VI INTERNATIONAL TRADE, POLICY AND PRACTICE: PAPER XVIII			
6.	January	10	Module I :Introduction <ul style="list-style-type: none"> ▪ Inter regional and international trade, Role of Dynamic factors i.e. change in Tastes, Technology and Role of Factor Accumulation. • Foreign Exchange Rate: Concepts - Short and Forward rates - Foreign Exchange rate determination ▪ Fixed and flexible exchange rate • Interrelationship between exchange rates and Interest rates. • Exchange Rate system in India, managed floating, • Interrelationship between exchange rates and Interest rates.
7.	February	11	Current and Capital Account Convertibility and their impact, FEMA. Module II :Emerging new International Economic <ul style="list-style-type: none"> ▪ GATT, Uruguay Round, WTO, WTO Agreement, Dispute settlement Mechanism • Impact of WTO on Emerging Economies and India, Doha Round and implications of its failure- • Emergence of Regional Free Trade agreements (FTA) • Bilateral Investment Treaty (BIT)
8.	March	11	<ul style="list-style-type: none"> • Double Taxation Avoidance Agreement (DTAA). Module III (International Financial Institutions and International Debt Problem. <ul style="list-style-type: none"> • IMF, World Bank, Asian Development Bank (ADB) -New Development Bank (NDB), Asia Infrastructure Investment

			<p>Bank (AIIB) and their role with special reference to India.</p> <ul style="list-style-type: none"> • South East Asian Crisis and Lessons for India, Global Economic Crisis • Global Financial Crisis of 2008, International Debt Problem <p>Emerging Global Financial Architecture.</p> <ul style="list-style-type: none"> • Global Financial Crisis of 2008, International Debt Problem <p>Module IV: Role of Foreign Capital Flow</p> <ul style="list-style-type: none"> • Factors determining Foreign Investment, Foreign Institutional Investment (FII), Qualified • Foreign Investment (QFI), Foreign Portfolio Investment (FPI), Role of FDI in Economic •
9.	April	07	<p>Emerging Global Financial Architecture.</p> <ul style="list-style-type: none"> • Development- Factors influencing FDI inflows- Green Field and Brown field FDI in India

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Teaching Plan : Academic Year 2020 - 2021Name of the Faculty : - **MAHAJAN SANJAY BABURAO**Class :- **TYBA**Sub :- **Micro & Macroeconomics-III**Department : **Economics**

(Lecture : Monday, Tuesday, Wednesday, Thursday)

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
Microeconomics - III, Paper- VII, Semester - V			
1.	August 2020	12	Module I, Monopoly 1. Sources of Monopoly 2. Profit Maximizing Monopoly 3. Calculation of Price, Output and Profit for a Monopoly (Short & Long Run Equilibrium) 4. Price Discrimination :- First, Second and Third Degree
2.	September-2020	15	5. Public Policy Towards Monopoly Module II, Basics of Game Theory 1. Prisoner's Dilemma 2. Dominant Strategy Equilibrium 3. Battle of Sexes Game 4. Nash Equilibrium 5. Extensive form Games 6. Game Tree
3.	October-2020	17	Module III, Oligopoly 1. The Cournot Model 2. The Bertrand Model 3. The Edgeworth Model 4. The Chamberlin Model 5. The Kinked Demand Curve Model 6. Collusion and Cartels 7. Price Leadership
4.	November-2020	12	Module IV, General Equilibrium and Welfare Economics 1. Interdependence in the Economy 2. General Equilibrium and its Existence 3. The Pareto Optimality Condition of Social Welfare 4. Marginal Conditions for Pareto Optimal Resource Allocation 5. Perfect Competition and Pareto Optimality
5.	December - 2020	05	6. Kaldor - Hicks Compensation Criterion 7. Arrow's Impossibility Theorem
Macroeconomics- III Paper-XII, Semester - VI			
6.	January - 2021	15	Module 1, The Goods Market in the open economy 1. Trade Balance and its Implications for GDP Calculations 2. Export and Import Functions 3. The Real Exchange Rate and why it Matters 4. Why Equilibrium GDP is Consistent with a Trade Imbalance? 5. Fiscal and Exchange Rate Policy with a Fixed Exchange Rate

			Module 2, Money/Financial Markets and Mundell - Fleming Model 1. The LM Equation for the Open Economy
7.	February - 2021	16	2. Uncovered Interest Parity and its Implications for Exchange Rate Determination 3. The Combined IS/LM/UIP Model 4. Fiscal and Monetary Policy under Fixed and Flexible Exchange Rates 5. The Mundell – Fleming Trilemma Module 3, Exchange Rate regimes and Exchange Rate Crises 1. The Choice of Regime – Fixed or Flexible 2. The Spectrum of Arrangements from Hard Peg at one end to Fully Floating at the other 3. Why the Balance of Payments must always Balance under Floating Exchange Rates but need not Balance under a Fixed or Managed Exchange Rate Regime
8.	March- 2021	17	4. Exchange Rate Crises – The relation between Exchange Rate Crises and other kinds of Crises (Banking Crises, Financial Crises, etc.) Module 4, International Monetary History, 1900-Present 1. The Gold Standard – The Inter-War Period and the Great Depression – 1944 2. Bretton Woods System and its Collapse 3. Fixing in Europe via ERM, and the Dollar Standard Elsewhere 4. The Maastricht Treaty and Preparations for the Euro 5. The Global Financial Crisis and its Consequences for the Euro
9.	April - 2021	05	6. The Euro Crisis 7. Asia Infrastructure Investment Bank (AIIB) 8. New Development Bank (NDB)

Sanjay
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Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
ECONOMICS OF DEVELOPMENT: PAPER VIII, SEMESTER –V			
1.	August 2020	12	Module 1: Concepts of Economic Growth and Development <ol style="list-style-type: none"> 1. Meaning of Growth and Development 2. Distinction between Growth & Development 3. Concept of Human Development- HDI 4. GDI 5. Sustainable Development 6. Green GDP 7. Three Core Values of Development 8. Capabilities & Functioning
2.	September 2020	16	Module 2: Structural Issues in Development Process <ol style="list-style-type: none"> 1. Big Push Theory 2. Theory of Human Capital 3. Role of Education, Health & Nutrition in Economic Development 4. Schumpeter's Theory of Development 5. Dual Economy Models of Growth 6. Solow's Growth Model
3.	October - 2020	16	Module 3: Inequality, Poverty and Development <ol style="list-style-type: none"> 1. Measures of Poverty and Inequality 2. Kuznets Inverted U-Hypothesis 3. Policy Options for Poverty Alleviation 4. Inclusive Growth 5. Rural Credit Institutions
4.	November - 2020	12	Module 4: Technology and Economic Development <ol style="list-style-type: none"> 1. Role of Infrastructure in Economic Development 2. Role of Technology in Economic Development 3. Types of Technical Progress 4. Intermediate/ Appropriate Technology
5.	December - 2020	02	<ol style="list-style-type: none"> 5. Green Technology
INTERNATIONAL ECONOMICS : PAPER XIV, SEMESTER - VI			
6.	January- 2021	12	Module 1 : Introduction <ol style="list-style-type: none"> 1. Importance of the Study of International Economics 2. An Overview of World Trade 3. Distinction between Domestic and International Trade 4. Concepts of Cost Difference

			5. Adam Smith's Theory of International Trade 6. The Ricardian Theory
7.	February - 2021	14	Module 2 : Modern Theories of International Trade 1. Heckshcher- Ohlin Theory of International Trade 2. Factor Abundance : Two Criteria 3. Leontief Paradox 4. Haberler's Theory of Opportunity Cost 5. Law of Reciprocal Demand and Offer Curves
8.	March - 2021	16	6. Role of Factor Accumulation 7. Stopler-Samuelson Theorem Module 3 : Importance of Trade and Recent Trends: 1. Monopolistic Competition and Trade 2. Firm Heterogeneity 3. FDI : The Concept and Role 4. FDI Inflows & Outflows 5. The Global Supply Chain 6. Business Process Outsourcing Module 4 : Trade Policy and Regionalism 1. Instruments of Trade Policy 2. Why Countries Cooperate? 3. GATT, GATS 4. Regional Trade Agreements 5. Controversies in Trade Policy (Labour Standards, IPR and Environment) 6. ASEAN
9.	April - 2021	06	7. SAARC 8. SAFTA 9. Protectionism

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Subject Teacher

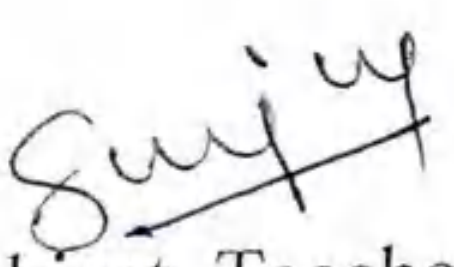
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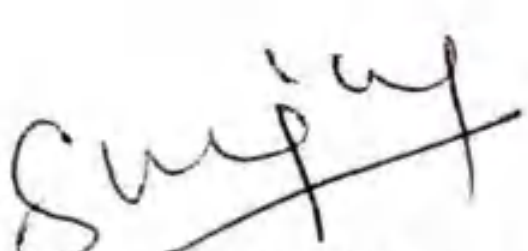
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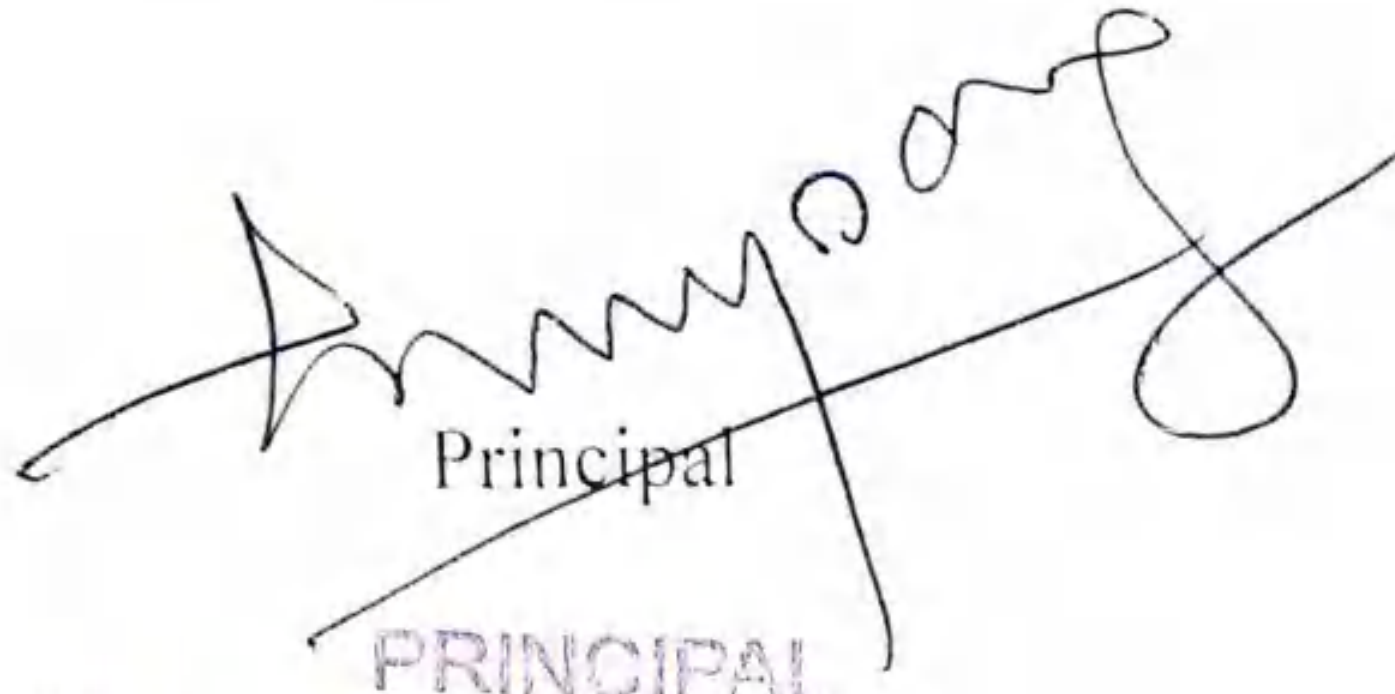


Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
INDUSTRIAL AND LABOUR ECONOMICS: PAPER IX, SEMESTER-V			
1.	August 2020	08	Module I, Introduction 1. Meaning and Scope of Industrial Economics 2. Industrial Profile i. Private Sector - Performance and Problems ii. Cooperatives - Features, Types, Merits and Demerits
2.	September 2020	14	iii. Public Sector - Role, Performance and Problems 3. Diversification & Industrial Combinations - Motives for Mergers & Acquisitions Module 2, Industrial Location and Problem of Regional Imbalance 1. Determinants of Industrial Location 2. Theories of Industrial Location - Weber's & Sargent Florence's Theories
3.	October-2020	13	3. Dispersion of Industries & the Problem of Regional Imbalance Module 3, Industrial Productivity and Industrial Sickness 1. Concept and Measurement of Industrial Productivity 2. Factors Affecting Industrial Productivity 3. Industrial Sickness - Causes, Effects and Remedial Measures
4.	November-2020	9	4. Rationalization - Concept, Aspects and Impact Module 4, Industrial Development in India 1. New Industrial Policy- 1991 2. Disinvestment Policy 3. FIPB Revamp 4. Micro, Small & Medium Enterprises Development Act- 2006 5. National Manufacturing Policy- 2011 6. Recent Trends in India's Industrial Growth
5.	December 2020	06	7. Industrial Policy- 2012 8. Role of MNCs in the Indian Economy - Merits and Demerits 9. Issues in Industrial Proliferation & Environment Preservation 10. Pollution Control Policies
INDUSTRIAL AND LABOUR ECONOMICS : PAPER XV, SEMESTER - VI			
6.	January - 2021	10	Module I, Introduction 1. Characteristics of Indian Labour Market 2. Child Labour - Problems and Measures 3. Female Labour - Problems and Measures 4. Globalisation and Indian Labour Market 5. Labour Market Reforms - Exit Policy & Need for safety Nets

7.	February - 2021	12	6. Second National Commission on Labour. Module 2, Trade Unionism 1. Definition and Functions of Trade Unions 2. Historical Evolution of Trade Unions in India and Their Present Status 3. Problems of Trade Unions in India
8.	March- 2021	14	4. Role of Outside Leadership Module 3, Industrial Relations 1. Causes of Industrial Disputes and their Settlement Mechanism 2. Collective Bargaining – Concept, Features, Importance 3. Pre-requisites for Successful Collective Bargaining 4. Collective Bargaining in India 5. Worker's Participation in Management – Concept, Objectives 6. Forms of Worker's Participation in India Module 4, Labour Welfare and social Security 1. Concept, Theories and Principles of Labour Welfare
9.	April - 2021	09	2. Agencies for Labour Welfare 3. Role of the Labour Welfare Officer 4. Social Security – Concept, Social Assistance and Social Insurance 5. Social Security Measures in India 6. International Labour Organization and its Impact on Indian Labour Legislations


Subject Teacher


Head of the Department


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Name of the Faculty : - MAHAJAN SANJAY BABURAO

Class :- TYBA

Subject :- ENVIRONMENTAL ECONOMICS : PAPER XI & INDIAN ECONOMIC THOUGHT : PAPER XVI

Department : Economics

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
ENVIRONMENTAL ECONOMICS : PAPER XI, SEMESTER V			
1.	August - 2020	12	Module - 1, Introduction to Environmental Economics 1. Introduction to Environmental Development and Environmental Economics 2. Rio-Declaration on Environmental Development 3. Agenda 21 Program me of Action for Sustainable Development 4. Social and Economic Dimensions
2.	September -2020	16	5. Conservation and Management of Resources for Development Module - 2, The Design and Implementation of Environmental Policy 1. Overview - Criteria for Evaluating Environmental Policies 2. Standards 3. Pigovian Taxes and Effluent Fees 4. Tradable Permits 5. Choice Between Taxes and Quotas 6. Implementation of Environmental Policy
3.	October - 2020	17	Module - 3, Measuring Benefits of Environmental Improvements 1. Economic Value of Environment- Use and Non-Use Values 2. Measurement Method :- Market Based and Non-Market Based Methods 3. Contingent Valuation 4. Travel Cost Method 5. Hedonic Price Method 6. Risk Assessment and Perceptions
4.	November - 2020	12	Module - 4, Environmental Problems 1. The Global Environment 2. Trans-Boundary Environmental Problems 3. Economics of Climate Change 4. International Environmental Agreements
5.	December - 2020	03	5. Sustainable Development: Concepts and Measures
INDIAN ECONOMIC THOUGHT : PAPER XVI, SEMESTER - VI			
6.	January- 2021	18	Module - 1, The Modernists 1. Naoroji : Drain Theory, Criticism and Long Run Relevance 2. Ranade's views on Railway Investment and the Methodology of Indian Economics 3. Gokhale : Gokhale and the Economics of Education 4. The Rupee Ratio Debate

			5. Dr. Amedkar's Contribution to the Rupee Debate Module - 2, Agriculture, Poverty and Famines 1. Why do Famines Occur : Famine Policy 2. Criticism of Famine Policy
7.	February - 2021	15	3. Ranade's views on Poverty and Industrialization, Agrarian Policy 4. Contribution of Dr. B.R. Ambedkar Module - 3, Economic Policy after Independence 1. Nehruvian Economics 2. Mahalonobis Model and Planning 3. Industrial Stagnation 4. Industry and Trade
8.	March - 2021	15	5. Agriculture and the Wage Goods Model 6. Reappraisal of Nehru's Economics Module - 4, Economic Thought in Contemporary India 1. Measurement of Poverty 2. Liberalization 3. Privatization 4. Globalization 5. Human Development and Amartya Sen's Contribution
9.	April - 2021	3	6. Jagadish Bhagawati's Contribution

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Teaching Plan : Academic Year 2020 - 2021

Name of the Faculty :- **MAHAJAN SANJAY BABURAO**

Class :- **SYBA**

(Lecture : Monday, Tuesday, Friday)

Sub :- **Macroeconomics-I & II**

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
Semester - III			
1	August- 2020	10	Module-1, Introduction to Macroeconomics & National Income 1 . Meaning and scope of Macro Economics 2 . Concepts of National Income : GNP, NNP, GDP, NDP, Per Capita Income, Personal Income and Disposal Income 3 . Methods and Difficulties in Measurement of National Income 4 . Circular Flow of Income : Closed (Two and Three Sector Models)
2	September -2020	13	5 . Circular Flow of Income : Open Economy Model Module - 2, Consumption & Investment 1 . Say's Law of Market 2 . Theory of Effective Demand 3 . Consumption Function 4 . Investment Function 5 . Marginal Efficiency of Capital and Rate of Interest
3	October - 2020	11	6 . Investment Multiplier Unit : 3, Money 1 . Money and Function of Money 2 . Supply of Money : Constituents 3 . Determinants of Money Supply 4 . Velocity of Circulation of Money 5 . RBI's Approach to Measurement of Money Supply (Liquidity Measures) 6 . Demand for Money :- i) Classical Approach
4	November - 2020	09	ii) Keynesian Approach iii) Friedman's Approach Module-4. Banking in India 1 . Commercial Banks: Functions 2 . Multiple Credit Creation Process 3 . Balance Sheet of Commercial Bank 4 . Development in Commercial Banking Sector Since 1990-91
5	December - 2020	05	4 . Central Bank : Functions of Central Bank- 5 . Traditional, Development, Promotional
Macroeconomics-II, Semester - IV			
6	December - 2020	05	Module : 1, Inflation 1. The Economics of Depression 2. Hyper Inflation; Inflation: Features and Causes 3. Demand Pull Inflation and Cost Push Inflation
7	January - 2021	12	4. Effects of Inflation 6. Nature of Inflation in Developing Economy

			7. Phillips Curve; 8. Stagflation: Meaning, Causes and Consequences Module – II : Economic Policy 1. Monetary Policy : Objectives 2. Instruments 3. Limitations
8	February - 2021	11	4. Role of Monetary Policy in Developing Economies 5. Fiscal Policy - Objectives 6. Instruments 7. Limitations 8. Role of Fiscal Policy in Developing Economies Module – III: Post Keynesian Economics 1. The IS-LM Model of Integration of Commodity and Money Market 2. IS Curve: Derivation of IS Curve,
9	March -2021	12	3. Shift in IS Curve, Equilibrium in Goods Market; 4. LM Curve: Derivation of LM Curve, 5. Shift in LM Curve, 6. Equilibrium in Money Market; Simultaneous Equilibrium in Goods and 7. Money Market Module – IV: External Sector 1. Balance of Payment: Structure 2. Disequilibrium in Balance of Payment 3. Types and Causes 4. Measures to Correct Balance of Payment Disequilibrium;
10	April - 2021	06	5. Foreign Exchange Market: 6. Determination of Exchange Rate 7. Fixed and Flexible Exchange Rate; 8. Spot and Forward Exchange Rate 9. Exchange Rate Policy

Sujay
Subject Teacher

Sujay
Head of the Department

A. R. Moore
Principal

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Teaching Plan : Academic Year - 2020-21

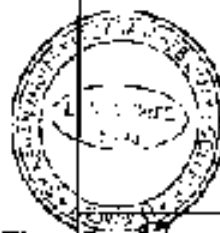
Name of the Faculty : - Mali Pratiksha P.

Class :- T.Y.B.A.

Sub :- Paper: V-A

Department :GEOGRAPHY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
GEOGRAPHY OF MAHARASHTRA			
1.	August - 2020	13	Unit-I : Maharashtra: Geographical Setting 1.1 Location, extent and boundaries 1.2 Administrative setup and divisions 1.3 Relief and climate 1.4 Drainage system
2.	September - 2020	19	Unit-II : Natural Resources 2.1 Soils 2.2 Natural vegetation 2.3 Minerals 2.4 Power resources Unit-III : Human Resources 3.1 Population growth 3.2 Distribution - urban-rural and population density
3.	October 2020	15	3.3 Structure of population : Age-sex 3.4 Occupational structure of population Unit-IV : Agriculture, Fishing and Livestock Resources 4.1 Salient features of agriculture 4.2 Agricultural regions, recent issues and policies 4.3 Fisheries, recent issues and policies
4.	November - 2020	11	4.4 Livestock resources recent issues and policies Unit-V: Industries, Trade and Transport 5.1 Major industrial regions 5.2 Role of transport in industrial development 5.3 Industrial issues and policies
5.	December - 2020	08	5.4 Trade and transport
SEMESTER - VI			
POLITICAL GEOGRAPHY			
6.	January - 2021	08	Unit - 1. : Introduction of Political Geography 1.1 Definition, Nature and Scope of Political Geography 1.2 Historical Development and Recent Trends in Political Geography 1.3 Concept of state and factors
7.	February -	17	1.4 Concept of Nation, Nation-State, and Nationalism



	2020		Unit – 2 : Approaches and Concepts in Political Geography 2.1 Hartshorne's Fundamental Approach: Centrifugal and Centripetal Forces 2.2 Unified Field Theory 2.3 Core Areas: Concept, Characteristics, and Distribution Unit – 3 : Frontiers and Boundaries 3.1 Frontiers and Boundaries: Concepts and Distinction
8.	March – 2021	19	3.2 Functions of Frontiers and Boundaries 3.3 Classification of Boundaries 3.4 India's Boundaries: Characteristics and Disputes Unit – 4 : Geostrategic and Geopolitical Views 4.1 Mackinder's Heartland and Spykman's Rimland Model 4.2 Geopolitics of Indian Ocean
9.	April – 2021	17	4.3 Geopolitics of International Water Disputes with Special Reference to India 4.4 Changing Political Map of India Unit – 5 : Electoral Geography 5.1 Concept, Nature and Approaches of Electoral Geography 5.2 Geography of Voting: Geographical Factors Affecting Elections 5.3 Spatial Organisation of Electoral Areas and Geography of Representation 5.4 Challenges to Election System in India

Pnali
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Head of the Department



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Teaching Plan : Academic Year - 2020-21

Name of the Faculty : - Mali Pratiksha P.

Class :- T.Y.B.A.

Sub :- Paper – IX

Department :GEOGRAPHY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V GEOSPATIAL TECHNOLOGY			
1.	August - 2020	12	UNIT - I Remote Sensing – I 1.1 Geospatial Technology: Concept, Components and Importance 1.2 Remote Sensing: Concept, Process and Geographical Applications 1.3 Electromagnetic Energy, EMR and EMS - Spectral Reflectance and Spectral Signature or Curve - Platforms, Sensors and Resolution 1.4 Elements of Visual Image Interpretation - Mapping of Thematic Layers and Visual Image Interpretation of Physical and Manmade Features
2.	September -2020	12	UNIT - II Remote Sensing – II 2.1 Digital image analysis: landuse and landform classification, 3D view of DEM 2.2 Aerial Photographs: Concept, Process and Types 2.3 Interpretation of Aerial Photographs 2.4 Advanced Remote Sensing Technology - Use of Bhuvan website UNIT - III Global Positioning System 3.1 GPS : Concept, Segments, Applications 3.2 Types of GPS – GPS Data Accuracy and Errors
3.	October 2020	12	3.3 Factors Affecting GPS Data - Global Navigation System 3.4 Ground Survey and Demarcation of Point, Line and Polygon Features with GPS Device – Transfer GPS Data to Computer with Softwares like Easy GPS UNIT - IV Geographic Information System – I 4.1 GIS : Concept, Components and Applications - Map Projection and Coordinate System 4.2 GIS Data Acquisition and Types
4.	November- 2020	08	4.3 Importing Image into GIS Software and Geo-referencing 4.4 Creating Layers by Digitization of Point, Line and Polygon Features UNIT V Geographic Information System – II 5.1 Functions of Database Creation – Input, Editing and



			Linking 5.2 Spatial Database Analysis: Overlay, Merge, Query
5.	December – 2020	04	5.3 Using Map-Composer for Map Layout and Design 5.4 Preparation of Thematic Maps

**SEMESTER – VI
RESEARCH METHODOLOGY**

6.	January – 2021	08	Unit – I : In Research <ul style="list-style-type: none"> • Meaning • Objectives • Structure • Significance • Motivation • Utility • Ethical Consideration in Research • Plagiarism
7.	February – 2020	10	<ul style="list-style-type: none"> • Types of Research • Issues and Problems in Research Unit – II : Research Methodology <ul style="list-style-type: none"> • Meaning of Research Methodology • Stages in Scientific Research Process • Identification and Selection of Research Problem • Formulation • Review of Literature • Hypothesis • Research Design • Sample Design
8.	March– 2021	12	<ul style="list-style-type: none"> • Qualitative Research • Quantitative Research Unit – III Data Collection and Data Analysis <ul style="list-style-type: none"> • Types and Sources of Data • Observation • Questionnaire Survey • Schedule • Interview
9.	April - 2021	12	<ul style="list-style-type: none"> • Stages in DataProcessing- Editing Coding – Classification- Tabulation • Data Analysis with Statistical Packages- Excel and SPSS – Diagrammatic representation, Interpretation of Data Unit – IV : Preparation of Research Report <ul style="list-style-type: none"> • Structure of scientific reports • Types of report • Different steps in the preparation • Layout



			<ul style="list-style-type: none"> • Structure and Language of typical reports • Illustrations and tables • Bibliography, referencing and footnotes Unit – V: Research Report <ul style="list-style-type: none"> • Journal & Viva
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Subject Teacher

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Head of the Department

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Teaching Plan : Academic Year - 2020-21

Name of the Faculty : - Mall Pratiksha P.

Class :- T.Y.B.A.

Sub :- Paper No: VI - TOOLS AND TECHNIQUES IN GEOGRAPHY FOR
SPATIAL ANALYSIS-I (Practical)

Department :GEOGRAPHY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	August - 2020	09	Unit -I Map Projections 1.1. Basic Concepts – Definition, scale, direction, azimuth, graticule, great circle, true meridian, types of projections, choice of projections 1.2. Zenithal Polar Projections – Equal Area, Equidistant 1.3. Cylindrical Projections - Equal Area, Equidistant 1.4. Conical Projections - One standard parallel, two standard parallel
2.	September -2020	15	Unit-II Map Basic 2.1. Basic elements of map and calculation or identification of relief, direction, bearing and distance 2.2. Area calculation with square method and strip method 2.3. Demarcation of watershed on toposheet, Tracing of stream network and contours Unit-III Survey of India Toposheets 3.1. Signs and symbols, marginal information 3.2. Study of physiography, drainage and vegetation (one full toposheet of hilly and plateau region each) 3.3. Study of settlements – size, pattern, utilities (one full toposheet of plains and urban region each)
3.	October 2020	11	3.4. Study of transport network (one full toposheet of plains and urban area each) Unit-III Preparation of Thematic maps (Manually) 4.1. Preparation of a district thematic maps with actual data- Dot and Pictogram 4.2. Preparation of a district thematic maps with actual data- Choropleth and Isopleth
4.	November- 2020	09	4.3. Preparation of a district thematic maps with actual data- Located bar, located circle and pie chart Unit-V Use of computers in geographical data representation 5.1. Construction of line graphs & simple and multiple bar graphs using MS-excel 5.2. Construction of divided bar graphs & pie charts using MS-excel



			5.3. Preparation of dataset in SPSS
5.	December 2020	03	5.4. Calculation of central tendency and standard deviation using SPSS
SEMESTER - VI TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-II (Practical)			
6.	January – 2021	06	Unit -I Nature of data and central tendency Lectures 1.1. Meaning and types of data, variable, observation, observation value, simple, discrete data and continuous data 1.2. Frequency Distribution, Histogram, Frequency Polygon and Ogive 1.3. Measures of Central Tendency- mean, median and mode
7.	February 2020	11	Unit -II Dispersion and Deviation 2.1. Mean Deviation and Quartile Deviation 2.2. Standard Deviation 2.3. Moving Averages (3 years and 5 years)
8.	March– 2021	14	Unit -III Correlation, Regression & Hypothesis Testing 3.1. Calculation of correlation coefficient - Pearson's and Spearman's methods 3.2. Regression analysis 3.3. Chi square test
9.	April - 2021	12	Unit-IV Sampling 4.1. Sample and sample design in geography 4.2. Point sampling – Systematic and random 4.3. Line sampling – Systematic and random 4.4. Area sampling – Systematic and random
10.	May - 2021	05	Unit-V Field work in Geography of any one place/village 5.1. Collection of physiographic data – Field observation, field sketching, collection of soil and rock samples, identification of vegetation etc. 5.2. Collection of socio-economic data interviews, questionnaire survey, visit to local governing office, NGO's etc. 5.3. Collection of geospatial data – toposheets, aerial photographs, Google images/maps, Bhuvan images etc. To prepare a geographical report of a place with the help of an available 5.1, 5.2, and 5.3 aspects

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Teaching Plan : Academic Year - 2020-21

Name of the Faculty :- Mali Pratiksha P.

Class :- T.Y.B.A.

Sub :- **Paper – VII**

Department : GEOGRAPHY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
REGIONAL PLANNING AND DEVELOPMENT			
1.	August - 2020	14	UNIT – I: Understanding Regional Planning 1.1 Planning: Concept, types and need 1.2 Regional planning: Concept, nature, relation with Geography 1.3 Role of surveys and geospatial technology in regional planning 1.4 Problems associated with regional planning
2.	September -2020	18	UNIT – II: Concept of Region in Planning 2.1 Region: Concept, types and delineation 2.2 Planning Regions: Need, characteristics and hierarchy 2.3 Delineation of planning regions: Principles, criteria and methods 2.4 Perroux's Growth Pole Theory and regional planning UNIT – III: Understanding Regional Development 3.1 Development: Concept and indicators 3.2 Regional disparities in development: Concept and measurements
3.	October 2020	15	3.3 Spatial and Non-Spatial Models of Development with Special Reference to Rostow's Model and Myrdal's Model 3.4 Strategies for regional development UNIT – IV: Regional Planning in India – I 4.1 Five-Year Plans: Features, achievements and failures 4.2 Multi-level planning in India 4.3 Planning regions of India
4.	November- 2020	12	4.4 Changing planning mechanism of India: NITI Ayog UNIT – V: Regional Planning in India – II 5.1 Micro level planning in rural area 5.2 Backward area development programme
5.	December – 2020	06	5.3 Urban fringe of Indian cities: Problems and planning 5.4 Metropolitan Planning: A Case of Mumbai Metropolitan Region
SEMESTER – VI			
ECONOMIC GEOGRAPHY			
6.	January 2021	10	Unit – 1. : Introduction of Economic Geography 1.1 Definition, Nature, Scope and Branches of Economic Geography



			1.2 Approaches of Economic Geography and Relation with other social sciences 1.3 Concept and Operation of Economy 1.4 Resources: Concept, Classification and Importance in Economy
7.	February - 2020	16	Unit - 2. : Economic Activities 2.1 Economic Activities: Type and Characteristics 2.2 Factors Affecting Economic Activities 2.3 Agriculture and Lumbering: Types and Distribution 2.4 Fishing and Animal Husbandry: Types and Distribution Unit - 3. : Minerals and Industries 3.1 Minerals: Importance, Characteristics and Distribution of Iron Ore, Manganese, Coal and Mineral Oil
8.	March - 2021	18	3.2 Factors Affecting Industrial Locations 3.3 Weber's Industrial Location Theory 3.4 Major Industrial Regions of the World Unit - 4. : Transport and International Trade 4.1 Transportation: Importance and influencing factors 4.2 Major Transport Patterns in the World
9.	April - 2021	17	4.3 Patterns of International Trade: Composition and Direction 4.4 Major International Trade Organisations: WTO, OPEC, SAARC, G-20 and BRICS Unit - 5 : Economic Development of India 5.1 Levels of Economic Development in India 5.2 Globalisation and its impact on Indian economy 5.3 Special Economic Zones: Concept and issues in India 5.4 Environment and Economic Development and related issues

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Teaching Plan : Academic Year - 2020-21

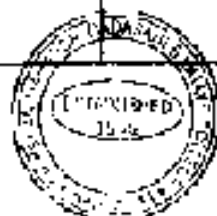
Name of the Faculty : - Mali Pratiksha P.

Class :- T.Y.B.A.

Sub :- VIII - A

Department : GEOGRAPHY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
GEOGRAPHY OF RESOURCES			
1.	August - 2020	13	UNIT - I: Introduction to the Resources 1.1 Meaning and importance of the natural resources 1.2 Factors influencing on resource utilization and related theories 1.3 Classification of resources 1.4 Issues with renewable and non-renewable resources
2.	September -2020	19	UNIT - II: Natural resources: over exploitation and conservation measures 2.1 Over exploitation and depletion of natural resources 2.2 Resource consumption pattern in the developed and underdeveloped countries 2.3 Need and measures for resource conservation 2.4 Sustainable use of natural resources UNIT - III: Natural Resources, Part -I 3.1 Distribution of water resources on the Earth 3.2 Water consumption pattern, water pollution and water conservation
3.	October 2020	15	3.3 Distribution of forest resources in the world 3.4 Deforestation and forest conservation UNIT - IV: Natural Resources Part -II 4.1 Soil composition and factor affecting soil formation 4.2 Soil degradation and its conservation
4.	November- 2020	11	4.3 Minerals and their classification 4.4 Use of energy minerals and their conservation UNIT - V: Human Resources 5.1 Concept of human resource: skilled and unskilled workers 5.2 Distribution of population in the world
5.	December - 2020	05	5.3 Concept of over, under and optimum population 5.4 Population Resource regions
SEMESTER - VI			
VIII-B: SOCIAL GEOGRAPHY			
6.	January - 2021	08	UNIT - I: Introduction to Social Geography 1.1 Social Geography: Definitions, Nature, Scope and importance 1.2 Branches and Approaches in Social Geography 1.3 Concept of Social Space and Socio-cultural Regions



7.	February – 2020	17	1.4 Globalisation: The Process of Social and Spatial Change UNIT – II: Elements of Social Geography -World 2.1 Race: Concept and Basis of Classification and distribution 2.2 Religion: Characteristics, Distribution and Spread of Major Religions in the World 2.3 Language: Characteristics and Distribution of Major Linguistic Families in the World 2.4 Tribes: Concept, Characteristics and Patterns of Distribution of Major Tribes in the World
8.	March– 2021	19	UNIT – III: : Elements of Social Geography –India 3.1 Race: Major races and its distribution in India 3.2 Religion: Major Religions and its distribution and its distribution in India 3.3 Language: Major Linguistic Families in India 3.4 Tribes: Distribution of Scheduled Tribes in India UNIT - IV: Social Geography of City 4.1 Social groups – identification and distribution 4.2 Residential segregation
9.	April - 2021	17	4.3 Functional segregation 4.4 Social issues in the city UNIT – V: Contemporary Issues in India 5.1 Religion related social issues 5.2 Language related social issues 5.3 Patterns of gender issues in India 5.4 Socio-economic problems of indigenous communities in India

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Teaching Plan : Academic Year -2020-21

Name of the Faculty : -Dr.Sanjay K Gaikwad

Class :- M.A.-I


Sub :- Social, Economic and Administrative History of Early India (up to 1000 CE

Department : HISTORY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	August	12	History: Meaning and Nature (a) History: Definitions and Scope (b) Importance of History (c) History and Auxiliary Science
2.	September	12	Sources of History (a) Sources – Nature and Types (b) Methods of Data Collection (c) Classification and Organisation of Sources
3.	October	12	Problems in History writing (a) Authenticity and Credibility of Sources (b) Heuristics and Hermeneutics (c) Causation
4.	November	12	Historical Research and Methods (a) Interpretation and Generalization of Sources (b) Citation methods, Bibliography and Technical aids (c) Qualitative and Quantitative Methods in History


Subject Teacher


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Teaching Plan : Academic Year -2020-21

Name of the Faculty : -Dr.Sanjay K Gaikwad


Class :- M.A.-I


Sub :- Social, Economic and Administrative History of Medieval India (1200 CE - 1700 CE)

Department : HISTORY

SEMESTER – 1			
6.	August	12	1. Medieval Indian Political Scenario (a) Theories of State: Sultanate, Mughal, Vijayanagar and Marathas (b) Nature of Kingship: Delhi Sultanate, Mughal, Vijayanagar and Marathas. (c) Mansabdari System and Watan System
7.	September	12	Social & Cultural Developments (a) Islamic Intellectual Traditions: Al-Beruni, Al-Hujwiri (b) Class, Caste, Untouchability and Forced Labour (c) Education
8.	October	12	Religious scenario (a) Bhakti Movement – Nature, Spread and importance (b) Sufism – Silsilas and Doctrine (c) Akbar's Din-i-Ilahi and Syncretism
9.	November	12	Economic Transformations (a) Experiments in Revenue Administration (b) Industries, Crafts and Urbanisation; Indian Ocean Trade Networks (c) Monetary and Banking System


Subject Teacher


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Teaching Plan : Academic Year -2020-21

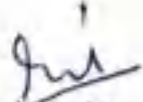
Name of the Faculty :-Dr.Sanjay K Gaikwad

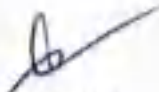
Class :- M.A.-I

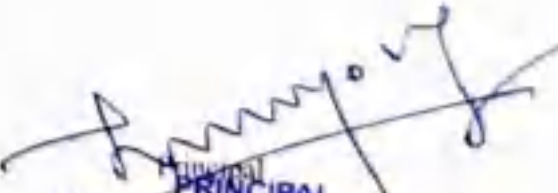
Sub :- r VII: Milestones in World History (1750 CE – 1960 CE

Department : HISTORY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER – II			
1.	December	12	Revolutions (a) Industrial Revolution – Nature and Impact (b) Nature of American Revolution (1776) and French Revolution (1789) (c) Russian Revolution
2.	January	12	Colonialism and Imperialism (a) Early Colonial Expansions – Explorations & Motives (b) Nature of Colonial Control – Africa & Asia (c) Theories and Mechanisms of Imperialism
3.	February	12	Varieties of Nationalism (a) Unification of Germany and Italy (b) Formation of National Identities – Ireland and Balkans (c) Arab Nationalism; Zionist Movement
4.	March	12	Impact of World Wars (a) Nazism, Fascism and Militarism (b) Human Tragedy and (c) Process of Decolonization and Cold War
5.			


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Teaching Plan : Academic Year -2020-21

Name of the Faculty : -Dr.Sanjay K Gaikwad

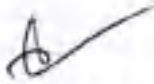
Class :- M.A.-I


Sub :- History of Emancipatory Movements in Modern

Department : HISTORY

SEMESTER – II			
6.	December	12	1Race (a) Understanding Race and Apartheid (b) Martin Luther King, Jr. and Afro-American Civil Rights Movements (c) Nelson Mandela and Anti-Apartheid Movement in South Africa
7.	January	12	Gender (a) First Wave Feminist Movement (b) Second Wave Feminist Movement (c) Third Wave Feminist Movement
8.	February	12	Caste (a) Concept and Understandings (b) Caste as Tradition, Power and Humiliation (c) Anti-caste movements of Dr. B.R. Ambedkar and Periyar E.V. Ramasamy
9.	March	12	Class and Tribe (a) Marxist and Neo-Marxist Understandings of Class (b) Nature of Labour Movements in India (c) Understandings of Tribe and Nature of Indian Tribal Struggles in the 20th Century


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Teaching Plan : Academic Year -2020-21

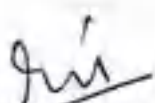
Name of the Faculty : -Dr.Sanjay K Gaikwad

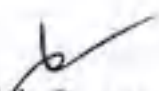
Class :- M.A.-II

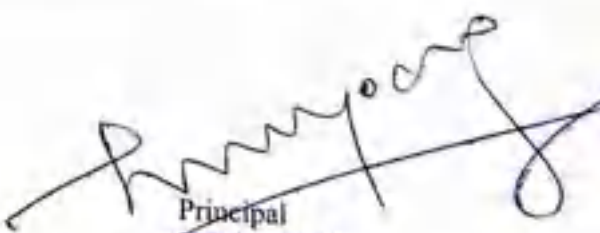
Sub :- History of Buddhism

Department : HISTORY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER – III			
1.	August	12	1. Sources of Buddhism (a) Literary and Archaeological Sources (b) Life of Gautam Buddha (c) Teachings of Buddha- Four Noble Truths, Eight Fold Path, Law of Dependent Origination (PatichcaccSammuccapad(a), Sila, Samadhi and Panna
2.	September	12	2. Buddhism and its Impact (a) Ashokan Inscriptions, Six Buddhist Councils (b) Art and Architecture- Stupa, Chaityagraha, Vihara (c) Sects in Buddhism, Spread of Buddhism –Srilanka, Myanmar, Thailand, and Japan
3.	October	12	Political expansion of Buddhism in India (a) Role of King Ashoka in spread of Buddhism (b) Expansion of Buddhism under Satavahanas (c) Kanishka and Harshavardhan
4.	November	12	Places associated with Buddhism (a) Lumbini, Kushinagar and Kapilvastu (b) Sarnath, Bodhgaya and Shravasti (c) Buddhist Universities in Indi
5.			


Subject Teacher


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Teaching Plan : Academic Year -2020-21

Name of the Faculty : -Dr.Sanjay K Gaikwad

Class :- M.A.-II


Sub :- History of Science and Technology in Modern India

Department : HISTORY

SEMESTER – III			
6.	August	12	Approaches to the History of Science and Technology. a) Historiographical Study b) Colonial Surveys c) Scientific Associations
7.	September	12	Genesis and growth of Technical Education and Technology. a) Establishment of Technical Institutes in India. (b) Technology in Industry Textile, Railways, Ship Building, Mining (c) Development in Agriculture
8.	October	12	Emergence of National Science (a) Cultivating Scientific Temper, Role of Conferences & Exhibitions (b) Contribution of Indian Scientists In Pre- Independent India (c) Contribution of Indian Scientists in Post- Independent India
9.	November	12	Science and Technology in Contemporary India a) Jawaharlal Nehru's vision of development through Science (b) Scientific and Technological Progress in the post Nehruvian Era (c) Development versus Displacement debate


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Teaching Plan - Academic Year -2020-21

Name of the Faculty :- Dr. Sanjay K Ginkwad

Class :- M.A.-II


Sub :- History of Modern Europe

Department : HISTORY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER – III			
1.	August	12	1. French Revolution and Metternich Era (a) The French Revolution – 1789. (b) Napoleon Bonaparte- Domestic and Foreign Policy of 1848
2.	September	12	Socio-Economic Transformation (a) Agrarian Revolution (b) Industrial Revolution (c) Development of Socialism (Utopian and Marxist)
3.	October	12	Formation of Nation States (a) Unification : Italy and Germany (b) Greek War of Independence (c) Crimean War and Russo-Turkish War
4.	November	12	World War I and II (a) World War I and Paris Peace Conference (b) Russian Revolution of 1917 and rise of dictatorship (c) World War II


Subject Teacher


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Teaching Plan : Academic Year -2020-21


Name of the Faculty :-Dr.Sanjay K Garkwad

Class :- M.A.-II


Sub :- History of India: Concept and Theory

Department : HISTORY

SEMESTER – IV			
6.	December	12	Historical background of Early India (a) Evolution of Indian Culture (b) Indian Society and Religion (c) Political System
7.	January	12	Cultural advancement and technology in Medieval India (a) Impact of Islam; Feudalism and Polity (b) Economy, Education and Architecture (c) Culture, Language, Science and Technology
8.	February	12	Colonialism : Challenge and Response (a) British rule : Impact on Education, Economy, and Science (b) Nature of the Uprising of 1857. (c) Socio-Religious Reform and Culture
9.	March	12	Unity and Diversity in Contemporary India (a) Nationalism and Cultural cohesiveness (b) Linguistic States (c) Parliamentary Democracy, Federalism and Secularism


Subject Teacher


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Kalamboli.

Teaching Plan : Academic Year - 2020-21

Name of the Faculty : - Dr. Jadhav B. B.

Class :- M. A. I Subject :- History

Name of Paper :- Research Methods in History

Department : History

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	June, July		ADMISSION
2.	August	12	Module I: History: Meaning and Nature (a) History: Definitions and Scope (b) Importance of History (c) History and Auxiliary Sciences
3.	September	12	Module II: Sources of History (a) Sources – Nature and Types (b) Methods of Data Collection (c) Classification and Organisation of Sources
4.	October	12	Module III: Problems in History writing (a) Authenticity and Credibility of Sources (b) Heuristics and Hermeneutics (c) Causation
5.	November	12	Module IV: Historical Research and Methods (a) Interpretation and Generalization of Sources (b) Citation methods, Bibliography and Technical aids (c) Qualitative and Quantitative Methods in History
6.	December		College Exam. & University Exam.


Subject Teacher


Head of the Department
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Department of History
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Tal. - Panvel, Dist. - Raigad.

SEMESTER – II**Name of Paper :- Philosophy of History**

7.	January	12	Module I: Philosophy of History (a) Meaning and Relevance (b) Philosophy of History in Early India (c) Theological School, Idealistic School, Rationalist School and Positivist School
8.	February	12	Module II: Materialist Schools (a) Marxist view of History – Marx & Engels (b) Neo- Marxist view of History – Eric Hobsbawm & E.P. Thompson (c) Subaltern Studies – Main Concepts, and Contribution of Subaltern Studies
9.	March	12	Module III: Post-Marxist Concepts and Approaches (a) Historicism, New Historicism and Cultural Materialism (b) Annals School: Ideas, Methods and Contribution (c) Postmodernism and History
10.	April	12	Module IV: Perceptions of Indian History (a) Orientalists, Imperialists and Cambridge Schools (b) Nationalist and Marxist Schools (c) Unconventional Sources and Recent Methods
11	May		Revision, Pre. Exam. College Exam. & University Exam.

**Subject Teacher**
Head of the Department

Head
Depart of History
S.M.D.I
Kalamboji


Principal

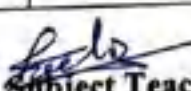
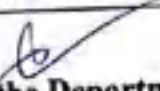
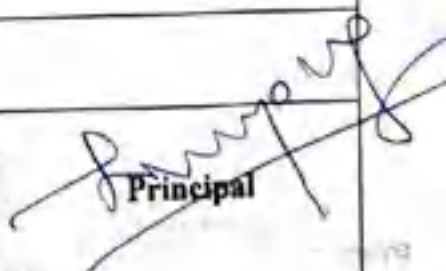
Teaching Plan : Academic Year – 2020-21

Name of the Faculty : - Dr. Jadhav B. B.

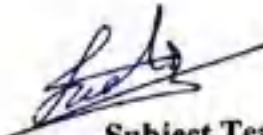
Class :- M.A. I Subject :- History

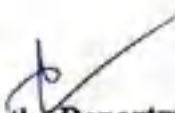
Name of Paper :- Socio, Eco. & Administrative History of Modern India (1757 – 1947CE)

Department : History


Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	June, July		Admission
2.	August	12	Module I: Background: India in 18th Century (a) Polity (b) Society (c) Economy
3.	September	12	Module II: Colonial State and Ideology (a) Ideologies of Raj (b) Arms of Colonial State – Army, Police and Law (c) Education: Indigenous and Modern
4.	October	12	Module III: Economic Developments (a) Deindustrialization and Commercialization of Agriculture (b) Transport, Industry, Urbanization and Agrarian Change (c) Drain of Wealth
5.	November	12	Module IV: Social and Cultural Transformations (a) Advent of Printing and its Implications; Reform Movements: Nature and Issues (b) Social Change - Caste, Class and Gender (c) Making of Religious, Linguistic Identities and Rise of Nationalism
6.	December		Revision, Pre. Exam. College Exam. & University Exam.
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  Subject Teacher </div> <div style="text-align: center;">  Head of the Department Head Department of History S. M. D. L. College, Kalamboli </div> <div style="text-align: center;">  Principal </div> </div>			

SEMESTER – II			
Name of Paper :- History of Contemporary India (1947 CE – 2000 CE)			
7.	January	12	Module I: Political Developments (a) Partition, Integration and Reorganization of States (b) Indian Constitution, Democracy at Work, Regional Politics; Separatist Movements (c) Communalism and Secularism
8.	February	12	Module II: Economic Transformations (a) Mixed Economy, Five Year Plans and Land Reforms (b) Nationalization of Banks, Agrarian and Industrial Development (c) Era of Globalization
9.	March	12	Module III: Social-Cultural Processes (a) Hindu Code Bill and the Women's Movement (b) Dalit Movement (1957-2000 CE) (c) Labor Movements and Tribal Issues
10.	April	12	Module IV: India and the World (a) Panchsheel and Non Alignment Movement (b) India and its Neighbors (c) India and International Politics
11	May		Revision, Pre. Exam. College Exam. & University Exam.


Subject Teacher


Head of the Department
Head
Department of History
S.M.D.L. College, Kalamboli




Principal
Principal
Tal - Parner, Dist. - Raigad.

SES's
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli.

Teaching Plan : Academic Year – 2020-21


Name of the Faculty : - Dr. Jadhav B. B.

Class :- M.A. II Subject :- History

Name of Paper :- **Socio-Eco. & Cultural History of India (1850-1947)**

Department : History

Sr. No.	Month	Available Period	Topic / Sub Topic to be Taught
SEMESTER - III			
1.	June, July		Admission
2.	August	12	Module I: Impact of Western Colonialism (a) Western Education (b) Advancement of Science and Technology (c) Socio-Religious Awakening
3.	September	12	Module II: . Indian Renaissance (a) British policies of Imperialism (b) Rise of Nationalism (c) Caste, Class and Women's Movements
4.	October	12	Module III: Indian Economy (a) Village Economy (b) British Revenue Administration. (c) Deindustrialization and Commercialization of Agriculture
5.	November	12	Module IV: Impact of Nationalist Struggle (a) Swadeshi and Village Industries (b) Economy and Rise of Indian Entrepreneurship (c) Trade and Commerce
6.	December		Revision, Pre. Exam. College Exam. & University Exam.


Subject Teacher


Head of the Department

Head
Department of History
S. M. D. L. College, Kalamboli


Principal

Teaching Plan : Academic Year – 2020-21

Name of the Faculty : - Dr. Jadhav B. B.

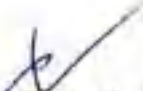
Class :- M.A. II Subject :- History

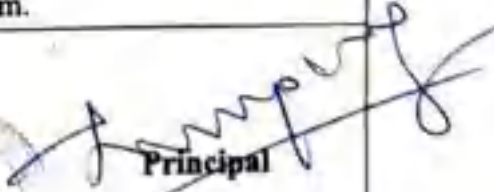
Name of Paper :- Indian National Movement (1857-1947)

Department : History

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III			
1.	June, July		Admission
2.	August	12	Module I: Historiography of the Indian National Movement (a) Imperialist and Nationalist School (b) Marxist, Cambridge School and Subaltern School (c) Revolt of 1857
3.	September	12	Module II: Rise of Socio-Political Consciousness (a) Growth of Western Education and Socio and Religious Movements (b) British Economic Policies and their Impact (c) The founding of Indian National Congress, its Policies and Programme
4.	October	12	Module III: Growth of Nationalism (a) Gandhiji and his Movements (b) All India Muslim League, Hindu Mahasabha, Rashtriya Swayansevak Sangh (c) Role of Princely States
5.	November	12	Module IV: Towards Independence (a) Constitutional Developments (b) Indian National Army, Naval Mutiny of 1946 and Freedom and Partition (c) Role of the Depressed Classes, Women, Workers and Left Movements
6.	December		Revision, College Exam. & University Exam.


Subject Teacher


Head of the Department
Head
Department of History
S. M. D. L. College, Kalamboli.


Principal
S. M. D. L. College, Kalamboli.

SES's
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli.

Teaching Plan : Academic Year – 2020-21

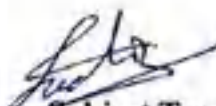
Name of the Faculty : - Dr. Jadhav B. B.

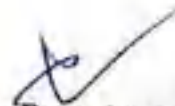
Class :- M.A. I Subject :- History

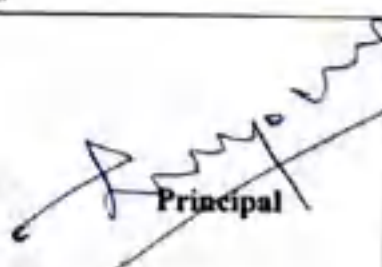
Name of Paper :- Sources in Historical Research

Department : History

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - IV			
1	January	12	Module I: Introduction (a) Meaning, Scope and Nature of History (b) Authenticity, Credibility and Relevance of Sources (c) Repositories of Sources
2	February	12	Module II: Historical Sources (a) Classification and Organisation (b) Primary sources, Secondary sources ; Unconventional Sources (c) Citation Methods and Bibliography
3	March	12	Module III: Conceptual Framework (a) Marx and Gramsci (b) Foucault , Postmodernism, Post-Structuralism (c) Cultural Anthropology and Interdisciplinary Approaches
4	April	12	Module IV: Analysis of Sources (a) Difference between History, Memory and Biography (b) Difference between History and Fiction (c) Difference between History and Antiquarianism
5	May		Revision, Pre. Exam. College Exam. & University Exam.


Subject Teacher


Head of the Department
Head
Department of History
S. M. D. L. College, Kalamboli.


Principal
Tel - 02022122000 - 02022122001

Name of the Faculty : Mrs. Vaishali R. Dhamal

Class : T.Y.B.Com.

Course : Financial Accounting and Auditing (Paper-VIII)

Subject : Cost Accounting

Department : Commerce

Sr. No.	Month	Available Period	Topic / Sub. Topic to be Taught
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SEMESTER-V

1.	Aug	10	<u>Introduction to Cost Accounting</u> (a) Objectives and scope of Cost Accounting (b) Cost centres and Cost units (c) Cost classification for stock valuation, Profit measurement, Decision making and control (d) Coding systems (e) Elements of Cost (f) Cost behaviour pattern, Separating the components of semi- variable costs
2	Sep	10	<u>Material Cost</u> (i) Procurement procedures—Store procedures and documentation in respect of receipts and issue of stock, Stock verification (ii) Inventory control —Techniques of fixing of minimum, maximum and reorder levels, Economic Order Quantity, ABC classification; Stocktaking and perpetual inventory (iii) inventory accounting Note- Simple practical problems based on Calculation of EOQ, Raw Material Turnover ratio, Preparation of stock ledger and Valuation of Inventories, based on FIFO and Weighted average cost.
3	Sep	09	<u>Labour Cost</u> (i) Attendance and payroll procedures, Overview of statutory requirements, Overtime, idle time and Incentives (ii) Labour turnover (iii) Utilisation of labour, Direct and indirect labour, Charging of labour cost, Identifying labour hours with work orders or batches or capital jobs (iv) Efficiency



	Oct	02	rating procedures
			1.v) Remuneration systems and incentive schemes. Note- Simple practical problems based on Preparation of Labour cost statement Remuneration and incentive systems based on Piece work plan, Halsey Premium Plan, Rowan system, Gantt's Task
4	Oct	04	Overheads Functional analysis — Factory, Administration, Selling and Distribution Behavioural analysis — Fixed, Variable, Semi-variable cost Note-Simple practical problems on Departmentalization and apportionment of primary overheads, Computation of overhead rates including Machine overhead rates Basic concepts of treatment of over/under absorption of overheads- Direct Labour method and Prime Cost method
5	Nov	12	Classification of Costs and Cost Sheet Classification of costs, Cost of Sales, Cost Centre, Cost Unit, Profit Centre and Investment Centre Cost Sheet, Total Costs and Unit Costs, Different Costs for different purpose Note- Simple practical problems on preparation of cost sheet
6	Dec	10	Reconciliation of cost and financial accounts Practical problems based on Reconciliation of cost and Financial accounts.
	Dec		

SEMESTER-VI

1	Jan	0	Cost Control Accounts Advantages and Disadvantages Cost Control Accounts, Principal Accounts, Subsidiary Accounts to be maintained Note- Simple practical problems on preparation of cost control accounts
7	Feb	15	Contract Costing Progress payments, Retention money, Contract accounts, Accounting for material, Accounting for Tax deducted at source by the contractee, Accounting for plant used in a contract, treatment of profit on incomplete contracts.

3	March	10	Contract profit and Balance sheet entries. Excluding Escalation clause Note- Simple practical problems
4	March	10	<u>Process Costing</u> Process loss, Abnormal Gains and Losses, Joint products and by-products. Excluding Equivalent units, Inter-process profit Note- Simple Practical problems Process Costing and joint and by-products
5	April	10	<u>Introduction to Marginal Costing</u> Marginal costing meaning, applications, advantages, limitations Contribution, Breakeven analysis, Margin of safety and profit volume graph. Note-Simple Practical problems based on Marginal Costing excluding decision making
6	April	10	<u>Introduction to Standard Costing</u> Various types of standards, Setting of standards, Basic concepts of Material and Labour variance analysis. Note-Simple Practical problems based on Material and labour variances excluding sub-variances
			<u>Some Emerging concepts of Cost accounting</u> Target Costing Life cycle Costing Benchmarking ABC Costing Note- No practical problems

Shama
Subject Teacher

Shama
Head
Head of The Department
Department of Commerce
S. M. D. L. College, Kalamboli.



Principal
PRINCIPAL
S.E.S. & S. M. Dadasaheb Limaye
College, Kalamboli,
Tal. Panvel, Dist. Raigad.

SES'S

Shikshan Maharsi Dadasaheb Limaye, Art's, Commerce & Science College, Kalamboli.

Teaching Plan : Academic Year :- 2020-2021

Name of the faculty : Mrs. Vaishali R. Dhumal

Class : F.Y.B.Com.

Course : Commerce

Subject : Commerce-I & II

Department : Commerce

Sr. No.	Month	Available Period	Topic / Sub. Topic to be Taught
SEMESTER-I			
1	Sep	12	<u>Module No I-Business</u> <u>Introduction</u> , Concept, Functions, Scope and Significance of business. Traditional and Modern Concept of business. Objectives of Business: Steps in setting business objectives, classification of business objectives, Reconciliation of Economic and Social Objectives. New Trends in Business: Impact of Liberalization, Privatization and Globalization, Strategy alternatives in the changing scenario, Restructuring and turnaround strategies
2	Oct	11	<u>Module No 2- Business Environment</u> <u>Introduction</u> , Concept and Importance of business environment, Interrelationship between Business and Environment Constituents of Business Environment: Internal and External Environment, Educational Environment and its impact, International Environment – Current Trends in the World, International Trading Environment – WTO and Trading Blocs and their impact on Indian Business.
3	Nov	12	<u>Module No 3-Project Planning</u> <u>Introduction</u> , Business Planning Process; Concept and importance of Project Planning; Project Report; feasibility Study types and its importance Business Unit Promotion: Concept and Stages of Business Unit Promotion, Location – Factors determining location, and Role of Government in Promotion. Statutory Requirements in Promoting Business Unit: Licensing and Registration procedure, Filing returns and other documents, Other important legal provisions

1	Dec	10	<u>Module No.4-Entrepreneurship</u> <u>Introduction</u> :Concept and importance of entrepreneurship, Factor contributing to Growth of Entrepreneurship, Entrepreneur and Manager, Entrepreneur and Intrapreneur The Entrepreneurs :Types of Entrepreneurs ,Competencies of an Entrepreneur ,Entrepreneurship Training and Development centres in India. Incentives to Entrepreneurs in India. Women Entrepreneurs: Problems and Promotion.
SEMESTER-II			
1	Jan	12	<u>Module No1 Concept of Services</u> <u>Introduction</u> ; Meaning, Characteristics, Scope and Classification of Services – Importance of service sector in the Indian Marketing Mix Services: Consumer expectations, Services Mix, - Product, Place, Price, Promotion, Process of Services delivery, Physical evidence and people Service Strategies;Market research and Service development cycle, Managing demand and capacity, opportunities and challenges in service sector.
2	Feb	12	<u>Module No 2- Retailing</u> <u>Introduction</u> ; Concept of organized and unorganized retailing , Trends in retailing, growth of organized retailing in India, Survival strategies for unorganized Retailers Retail Format: Store format, Non – Store format, Store Planning, design and layout Retail Scenario: Retail Scenario in India and Global context – Prospects and Challenges in India.Mall Management – RetailFranchising, FDI in Retailing, Careers in Retailing
3	March	10	<u>Module No 3-Recent Trends in Service Sector</u> <u>ITES Sector</u> : Concept and scope of BPO, KPO, LPO and ERP. <u>Banking and Insurance Sector</u> : ATM, Debit & Credit Cards, Internet Banking – Opening of Insurance sector for private players, FDI and its impact on Banking and Insurance Sector in India <u>Logistics</u> : Net working – Importance – Challenges

4	April	11	Module No.4 -E-Commerce Introduction: Meaning, Features, Functions and Scope of E-Commerce- Importance and Limitations of E-Commerce Types of E- Commerce: Basic ideas and Major activities of B2C, E2B, C2C. Present status of E-Commerce in India: Transition to E-Commerce in India, E Transition Challenges for Indian Corporate ; on-line Marketing Research.
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Shamshad

Subject Teacher

Shamshad

Head of the Department
Head
 Department of Commerce
 S. M. D. L. College, Kalamboli

Shamshad

Principal
PRINCIPAL
 S.E.S. S. M. Dadasaheb Limaye
 College, Kalamboli.
 Tal : Panvel. Dist : Raigad.



SES'S

SHIKSHAN MAHARSHI DADASAHEB LIMAYE, ARTS, COMMERCE AND SCIENCE COLLEGE, KALAMBOLI

TEACHING PLAN: ACADEMIC YEAR 2020-2021

NAME OF THE FACULTY- MACHIGAR JAYA DHARMARAJ

CLASS- F.Y.B.COM

SUB-ACCOUNTANCY AND FINANCIAL MANAGEMENT

DEPARTMENT: COMMERCE

Sr.no	month	Available period	Topic/subject to be taught
Semester I			
1	September	06	1• Accounting standards: Concepts, benefits, procedures for issue of accounting standards Various AS : AS – 1: Disclosure of Accounting Policies Purpose, Areas of Policies, Disclosure of Policies, Disclosure of Changing Policies, Illustrations AS-2: Valuation of Inventories (Stock) Meaning, Definition, Applicability, Measurement of Inventory, Disclosure in Final Account, Explanation with Illustrations. AS – 9: Revenue Recognition Meaning and Scope, Transactions excluded, Sale of Goods, Rendering of Services, Effects of Uncertainties, Disclosure, Illustrations.
2.	September	06	Inventory Valuation Meaning of inventories Cost for inventory valuation Inventory systems : Periodic Inventory system and Perpetual Inventory System Valuation: Meaning and Importance Methods of Stock Valuation as per AS – 2 :



			FIFO and Weighted Average Method Computation of valuation of inventory as on balance sheet date: If inventory is taken on a date after the balance sheet or before the balance sheet
3.	October	08	1. Final Accounts Expenditure: Capital, Revenue Receipts: Capital, Revenue Adjustment and Closing Entries Final accounts of Manufacturing concerns (Proprietary Firm)
4.	October	08	2. Departmental Accounts Meaning Basis of Allocation of Expenses and Incomes/Receipts Inter Departmental Transfer : at Cost Price and Invoice Price Stock Reserve Departmental Trading and Profit & Loss Account and Balance Sheet
5.	November	12	3. Accounting for Hire purchase Meaning Calculation of interest Accounting for hire purchase transactions by asset purchase method based on full cash price Journal entries, ledger accounts and disclosure in balance sheet for hirer and vendor(excluding default, repossession and calculation of cash price)
Semester II			
6.	January	08	1. Accounting from Incomplete records Introduction Problems on preparation of final accounts of Proprietary Trading Concern (conversion method)
7.	December February	07	2 Consignment Accounts Accounting for consignment transactions Valuation of stock Involving of goods at higher price(excluding overriding commission, normal/abnormal losses)
			3.Branch Accounts



	February	07	Meaning/ Classification of branch Accounting for Dependent Branch not maintaining full books: Debtors method
8.	March	10	Stock and debtor Method
9.	April	12	4. Fire Insurance Claim Computation of Loss of Stock by Fire Ascertainment of Claim as per the Insurance Policy Exclude: Loss

Hachigari
SUBJECT TEACHER

Shamal
HEAD OF THE DEPARTMENT
Head
Department of Commerce
S. M. D. L. College, Kalamboli.

Limaye
PRINCIPAL
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli.
Tal : Panvel, Dist : Raigad.



SES'S

SHIKSHAN MAHARSHI DADASAHEB LIMYE, ARTS, COMMERCE AND SCIENCE COLLEGE, KALAMBOLI

Teaching plan: Academic year 2020-2021

NAME OF FACULTY: MACHIGAR JAYA DHARMARAJ

CLASS - S.Y.B.COM

SUB - BUSINESS LAW

DEPARTMENT : COMMERCE

Sr.no.	month	Available period	Topic/sub to be taught
1.	August	07	1. Indian Contract Act - 1872 Part -I <ul style="list-style-type: none">• Contract - Definition of Contract and Agreement, Essentials of Valid Contract, Classification of Contracts.• Offer and Acceptance - Rules of valid offer and acceptance, Counter offer, standing or open offer, distinguish between offer and invitation to offer. Concept of Communication and Revocation of offer and acceptance (sec. 3,5)• Capacity to Contract (S. 10-12) - Minor, Unsound Mind, Disqualified Persons.• Consideration (S. 2 & 25) - Concept and Importance of consideration, Legal rules of Consideration, Exceptions to the Rule, 'No Consideration No Contract' (Ss. 25) Unlawful Consideration (S 23)
2.	September	06	2. Indian Contract Act - 1872 Part -II <ul style="list-style-type: none">• Consent (Ss.13, 14-18, 39:53, 55, 66)- Agreements in which consent is not free - Coercion, Undue Influence, Misrepresentation Fraud, Mistake.• Void Agreements (S. 24-30) - Concept, Void Agreements under Indian Contract Act.• Contingent Contract (S. 31), Quasi Contract (S.68-72), Concept of E- Contract & Legal Issues



			<p>Information and discharge of E- Contract.</p> <p>Concept of Performance of Contract (S 37)</p> <ul style="list-style-type: none"> • Modes of Discharge of Contract, Remedies on breach of Contract.(73-75)
3	September	05	<p>3.Special Contracts</p> <ul style="list-style-type: none"> • Law of Indemnity & Guarantee (Ss. 124-125, Ss. 126-129, 132-147) – Concept, Essentials elements of Indemnity and Guarantee, Contract of Indemnity vs. Guarantee, Modes of Discharge of Surety. • Law of Bailment (S. 148, 152-154, 162, 172, 178, 178A, 179) – Concept, Essentials of Bailment, Kinds of Bailment, Rights and Duties of Bailor and Bailee • Law of Pledge – Concept, Essentials of valid Pledge, Lien - concept, Difference between Pledge and Lien, Rights of Pawnor & Pawnee.(Ss.173, 174, 177) • Law of Agency (Ss. 182-185, 201-209) – Concept, Modes of creation of Agency, Modes of termination of Agency, Rights& Duties of Principal and Agent.
	October	06	
4.	October	05	<p>4.The Sale Of Goods Act - 1930</p> <ul style="list-style-type: none"> • Contract of Sale (S.2) – Concept, Essentials elements of contract of sale, Distinction between Sale and Agreement to sell (S.4) Distinguish between Sale and Hire Purchase Agreement, Types of Goods. Effects of destruction of Goods (Ss. 6,7,8), • Conditions & Warranties (Ss. 11-25 & 62, 63) – Concept, Distinguish between Conditions and Warranties, Implied Conditions & Warranties, Concept of Doctrine of Caveat Emptor – Exceptions. • Property – Concept , Rules of transfer of property (Ss. 18-26) • Unpaid Seller (Ss. 45-54, 55 & 56)- Concept, Rights of an unpaid seller, Remedies for Breach



			of contract of Sale (Ss. 55-61), Auction sale – Concept, Legal Provisions. (S. 64)
5.	November	08	<p>5. The Negotiable Instruments</p> <ul style="list-style-type: none"> • Negotiable Instruments – Concept (S13), Characteristics, Classification of Negotiable Instruments (Ss. 11, 12, 17-20, 42, 43, 104, 134, 135) Maturity of Instruments. • Promissory Note and Bill of Exchange (Ss. 4, 5, 108-116) – Concept, Essentials of Promissory Note, Bill of Exchange (Ss. 4, 5), Essential features of promissory note and Bill of exchange, Kinds Promissory note and Bill of exchange, Cheque (S. 6) – Concept, Types & Crossing of Cheque, Distinguish between Bill of Exchange & Cheque, Dishonour of Cheque – Concept & Penalties (Ss. 138, 139, 142) • Miscellaneous Provisions (S. 8-10, 22, 99-102, 118-122, 134-137) – Parties to Negotiable instruments Holder, Holder in due course, Rights & Privileges of Holder in due course, Payment in due course, Noting & Protest (99-104A)
6.	December	03	

Semester II			
1.	January	06	<p>1- Indian Companies Act – 2013 Part I</p> <ul style="list-style-type: none"> • Company – Concept, Features, Role of Promoters (S. 2(69) S. 92), Duties and liabilities of the Promoter Effects of Pre-Incorporation contracts, Consequences of non-registration, and Lifting of Corporate Veil. • Classification of Companies Distinction between Private Company and Public Company, Advantages and disadvantages of Private company and Public Company. – Common Procedure for Incorporation of Company,



			<ul style="list-style-type: none"> • Memorandum of Association (MOA) & Article of Association(AOA) – Concept , Clauses of MOA, AOA- Contents, Doctrine of constructive notice, Doctrine of Ultra Vires, Doctrine of Indoor Management. • Prospectus – Concept, Kinds, Contents, Private Placement
2.	February	05	<p>2. Indian Companies Act – 2013, Part II</p> <ul style="list-style-type: none"> • Member of a Company –Concept, Who can become a member, Modes of acquiring membership, Cessation of membership, Right & Liabilities of Members. • Director – Qualifications& Disqualification, Classification, Director Identification Number (DIN), Legal Position of Directors. • Meetings – Types, Legal Provisions of Statutory Meeting, Annual General Meeting, Extra-Ordinary Meeting, Board Meeting.
	February	05	<p>Indian Partnership Act – 1932</p> <ul style="list-style-type: none"> • Partnership – Concept, Essentials, True Test of Partnership, Partnership Deed, Types of Partnership, Rights and Duties of Partners, Distinguish between Partnership & Hindu Undivided Family (HUF). • Dissolution – Concept, Modes of Dissolution, Consequences of Dissolution. • Limited Liability Partnership (LLP) 2008 – Concept, Characteristics, Advantages & Disadvantages, Procedure for Incorporation. • Extent of LLP.- Conversion of LLP, Mutual rights & duties of partners, Winding up of LLP, Distinction between LLP and Partnership.
	March	06	<p>4. Consumer Protection Act, 1986 & Competition Act 2002</p> <ul style="list-style-type: none"> • Consumer Protection Act – Concept , Objects, Reasons for enacting the Consumer



March	06	<p>Protection Act, Definition of Consumer, Consumer Dispute, Complaint, Complainant, Defect, Deficiency, Consumer Dispute, Unfair Trade Practices, Goods and Services.</p> <ul style="list-style-type: none"> • Consumer Protection Councils & Redressal Agencies – District, State & National. • Competition Act 2002 – Concept, Salient Features, Objectives & Advantages. • Abuse of Dominant Position, Competition Commission of India, Anti-Competition Agreements,
March	08	<p>5 INTELLECTUAL PROPERTY RIGHTS 12</p> <ul style="list-style-type: none"> • Intellectual Property Right (IPR) – Concept, Nature, Introduction & background of IPR in India. • IPR relating to Patents – Concepts of Invention and discovery, Comparison (S2 (j)), Concept of Patents, General principles applicable to working of patented inventions, Term of Patent. Infringement of Patent Rights & Remedies. (Ss. 104-115) • IPR relating to Copyrights- Concept of Copyright (Ss. 14, 16, 54,) Concept of author and authorised acts, (S.2) Ownership of Copy right (S.17) Duration or term of Copy right. (S. 22-27), Original work and fair use, Rights of Copyright holder, Infringement of Copyrights & Remedies. (Ss. 51, 52)• IPR relating to Trademarks –Concept, Functions of Trade Mark, types, trademarks that cannot be registered, Registration of Trade Marks and rights of the proprietor of Trade Marks. Procedure for registration of Trade Marks., Infringement of Trademarks & Remedies.

Dachigam
SUBJECT TEACHER

Shomai
HEAD OF THE DEPARTMENT
Head
Department of Commerce
S. M. D. L. College, Kalamboli.

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S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli.
Tal: Panvel, Dist: Raigad.



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SHIKSHAN MAHARSHI DADASAHEB LIMYE, ARTS, COMMERCE AND SCIENCE
COLLEGE, KALAMBOLI

Teaching plan: Academic year 2020-2021

NAME OF FACULTY- MACHIGAR JAYA DHARMARAJ

CLASS – S.Y.B.COM

SUB- ACCOUNTANCY AND FIN. MANAGEMENT

DEPARTMENT- COMMERCE

Sr.no	month	Available period	Topic/sub to be taught
Semester III			
1.	August	07	<p>1 Partnership Final Accounts based on Adjustment of Admission or Retirement/Death of a Partner during the year</p> <p>Simple final accounts questions to demonstrate the effect on final Accounts when a partner is admitted during the year or when partner Retires / dies during the year.</p> <p>Allocation of gross profit prior to and after admission / retirement / death when stock on the date of admission / retirement is not given and apportionment of other expenses based on time / Sales/other given basis.</p> <p>Ascertainment of gross profit prior to and after admission/retirement/death when stock on the date of admission/retirement is given and apportionment of other expenses based on time / Sales / other given basis Excluding Questions where admission / retirement / death takes place in the same year.</p>
2.			2 Piecemeal Distribution of Cash



	September	09 05	i) Excess Capital Method only ii) Asset taken over by a partner iii) Treatment of past profits or past losses in the Balance sheet iv) Contingent liabilities / Realization expenses / amount kept aside for expenses and adjustment of actual v) Treatment of secured liabilities treatment of preferential liabilities like Govt. dues / labour dues etc. Excluding : Insolvency of partner and Maximum Loss Method
3.	October	06 06	Amalgamation of Firms i) Realization method only ii) Calculation of purchase consideration iii) Journal / ledger accounts of old firms iv) Preparing Balance sheet of new firm v) Adjustment of goodwill in the new firm vi) Realignment of capitals in the new firm by current accounts cash or a combination thereof Excluding Common transactions between the amalgamating firms.
4.	November December	08 04	Conversion / Sale of a Partnership Firm into a Ltd. Company (i) Realization method only (ii) Calculation of New Purchase consideration, Journal / Ledger Accounts of old firms. Preparing Balance sheet of new company
5.			
6.			Semester IV
			1. Introduction to Company Accounts



			the methods of writing-off discount/loss on issue of debentures; Terms of issue of debentures
9.	March	06	Methods of redemption of debentures: By payment in lump sum and by payment in instalments (excluding from by purchase in open market), Conversion. (Question on entries, ledgers and/or Balance Sheet and /or redemption of preference shares)
10.	April	06	4. Ascertainment and Treatment of Profit Prior to Incorporation Preparation of separate combined, columnar Profit and Loss A/c including different basis of allocation of expenses and income

Aadhyar
SUBJECT TEACHER

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Tal. P.



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SHIKSHAN MAHARSHI DADASAHEB LIMAYE, ARTS, COMMERCE AND SCIENCE COLLEGE, KALAMBOLI

Teaching plan: Academic year 2020-2021

NAME OF FACULTY: MACHIGAR JAYA DHARMARAJ

CLASS - T.Y.B.COM

SUB- MARKETING AND HUMAN RESOURCES MANAGEMENT

DEPARTMENT : COMMERCE

Sr.no	month	Available period	Topic/sub to be taught
Semester V			
1.	August	05	1 Introduction to Marketing ☐ Marketing, Concept, Features, Importance, Functions, Evolution, Strategic v/s Traditional Marketing ☐ Marketing Research - Concept, Features, Process Marketing Information System-Concept, Components Data Mining- Concept, Importance ☐ Consumer Behaviour- Concept, Factors influencing Consumer Behaviour Market Segmentation- Concept, Benefits, Bases of market segmentation Customer Relationship Management- Concept, Techniques Market Targeting- Concept, Five patterns of Target market Selection
2.	September	08	2 Marketing Decisions I ☐ Marketing Mix- Concept, Product- Product Decision Areas Product Life Cycle- Concept, Managing stages of PLC Branding- Concept, Components Brand Equity- Concept, Factors influencing Brand Equity ☐ Packaging- Concept, Essentials of a good package



			Product Positioning- Concept, Strategies of Product Positioning Service Positioning- Importance & Challenges Pricing- Concept, Objectives, Factors influencing Pricing, Pricing Strategies
3.	October 05	3	Marketing Decisions Physical Distribution- Concept, Factors influencing Physical Distribution, Marketing Channels (Traditional & Contemporary Channels) Supply Chain Management-Concept, Components of SCM Promotion- Concept, Importance, Elements of Promotion mix Integrated Marketing Communication (IMC)- Concept, Scope, Importance Sales Management- Concept, Components, Emerging trends in selling Personal Selling- Concept, Process of personal selling, Skill Sets required for Effective Selling
4.	October 04	4	Key Marketing Dimensions Marketing Ethics: Concept, Unethical practices in marketing, General role of consumer organizations Competitive Strategies for Market Leader, Market Challenger, Market Follower and Market Nicher Marketing Ethics: Rural Marketing- Concept, Features of Indian Rural Market, Strategies for Effective Rural Marketing
5.	November 06 December 03		Digital Marketing-Concept, trends in Digital Marketing Green Marketing- concept, importance Challenges faced by Marketing Managers in 21st Century Careers in Marketing – Skill sets required for effective marketing Factors contributing to Success of brands in India with suitable examples, Reasons for failure of brands in India with suitable examples.



			Semester IV
6.	January 04	1	Human Resource Management
	February 03		<p> <input type="checkbox"/> Human Resource Management – Concept, Functions, Importance, Traditional v/s Strategic Human Resource Management <input type="checkbox"/> Human Resource Planning- Concept Steps in Human Resource Planning Job Analysis-Concept, Components, Job design- Concept, Techniques <input type="checkbox"/> Recruitment- Concept, Sources of Recruitment Selection - Concept , process , Techniques of E,selection, </p>
7.	February 06	2	Human Resource Development
			<p> <input type="checkbox"/> Human Resource Development- Concept, functions Training- Concept, Process of identifying training and development needs, Methods of Training & Development (Apprenticeship, understudy, job rotation, vestibule training, case study, role playing, sensitivity training, In, basket, management games) Evaluating training effectiveness- Concept, Methods <input type="checkbox"/> Performance Appraisal- Concept, Benefits, Limitations, Methods Potential Appraisal-Concept, Importance <input type="checkbox"/> Career Planning- Concept, Importance Succession Planning- Concept, Need Mentoring- Concept, Importance Counseling- Concept, Techniques. </p>
8.	March 08	3	Human Relations
			<p> <input type="checkbox"/> Human Relations- Concept, Significance Leadership –Concept, Transactional & Transformational Leadership </p>



9.	April 06		<p>Motivation- Concept, Theories of Motivation, (Maslow's Need Hierarchy Theory, Vroom's Expectancy Theory, McGregor's Theory X and Theory Y, Pink's Theory of Motivation)</p> <p>☐ Employees Morale- Concept, Factors affecting Morale, Measurement of Employees Morale Emotional Quotient and Spiritual Quotient- Concept, Factors affecting EQ & SQ</p> <p>☐ Employee Grievance- Causes, Procedure for Grievance redressal</p> <p>Employee welfare measures and Healthy & Safety Measures.</p> <p>4 Trends In Human Resource Management</p> <p>☐ HR in changing environment:</p> <p>Competencies- concept, classification</p> <p>Learning organizations- Concept, Creating an innovative organization,</p> <p>Innovation culture- Concept, Need, Managerial role.</p> <p>☐ Trends in Human Resource Management,:</p> <p>Employee Engagement- Concept, Types</p> <p>Human resource Information System (HRIS) – Concept, Importance,</p> <p>Changing patterns of employment. ☐ Challenges in Human Resource Management: Employee Empowerment, Workforce Diversity. Attrition, Downsizing, Employee Absenteeism, Work life Balance, Sexual Harassment at work place, Domestic and International HR Practices, Millennial (Gen Y) Competency Mapping</p>
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Pachigar
Subject Teacher

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Tal : Panvel, Dist : Raigad.

SES'S

SHIKSHAN MAHARSHI DADASAHEB LIMYE, ARTS, COMMERCE AND SCIENCE COLLEGE, KALAMBOLI

Teaching plan: Academic year 2020-2021

Name of Faculty: Machigar Jaya Dharmaraj

Class – T.y.b.com

Sub- Financial accounting and Auditing paper VII & IX

Department : Commerce

Sr.no	month	Available period	Topic/sub to be taught
Semester v			
1.	August	05	1. Preparation of Final Accounts of Companies Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustment for – 1. Closing Stock 2. Depreciation 3. Outstanding expenses and income 4. Prepaid expenses and Pre received income. 5. Proposed Dividend and Unclaimed Dividend 6. Provision for Tax and Advance Tax 7. Bill of exchange (Endorsement, Honour, Dishonour) 8. Capital Expenditure included in Revenue expenditure and vice versa eg- purchase of furniture included in purchases 9. Unrecorded Sales and Purchases 10. Good sold on sale or return basis 11. Managerial remuneration on Net Profit before tax 12. Transfer to Reserves 13. Bad debt and Provision for bad debts 14. Calls in Arrears 15. Loss by fire (Partly and fully insured goods) 16. Goods distributed as free samples. 17. Any other adjustments as per the prevailing accounting standard.



2.	September	08	2. Internal Reconstruction Need for reconstruction and company law provisions Distinction between internal and external reconstructions. Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant legal provisions and accounting treatment for same.
3.	October	05	3 Buy Back of Shares Company Law / Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions) Compliance of conditions including sources, maximum limits and debt equity ratio. Cancellation of Shares Bought back(Excluding Buy Back of minority shareholding)
4.	November	06	4. Investment Accounting (w.r.t. Accounting Standard- 13) For shares (variable income bearing securities) For debentures/Preference. shares (fixed income bearing securities) Accounting for transactions of purchase and sale of investments with ex and cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage). Columnar format for investment account
5.	December	05	5. Ethical Behavior and implications for Accountants Introduction, meaning of ethical behavior Financial reports-What is the link between law, corporate governance, corporate social responsibility and ethics? What does the accounting profession mean by the ethical behavior? Implications of ethical values for the principles versus rule based approaches to accounting standards The principal based approach and ethics The accounting standard setting process and ethics The IFAC code of ethics for professional Accountants Ethics in the accounting work environment- A research report Implications of unethical behavior for financial reports Company codes of ethics The increseing role of whistle -Blowing Why should student learn ethics?
Semester IV			
6.	January	08	AS - 14 - Amalgamation, Absorption & External Reconstruction (excluding Inter-company holdings)



			In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and purchase method respectively. Meaning and Computation of purchase consideration. Problems based on purchase method only.
7.	February		2. Accounting of transaction of foreign currency In relation to purchase and sale of goods, services and assets and loan and credit transactions. Computation and treatment of exchange rate differences
8.	February March	08 04	3. Liquidation of Companies Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of underwriting commission Underwriters, Sub-Underwriters, Brokers and Manager to issues. Types of underwriting, Abatement Clause Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contract Practical problems
9.	March April	04 04	4. Underwriting of Shares & Debentures Meaning of liquidation or winding up Preferential payments Overriding preferential payments Preparation of statement of affairs, deficit / surplus account Liquidator's final statement of account
10.	April	05	5. Accounting for Limited Liability Partnership Statutory Provisions Conversion of partnership firm into LLP Final Accounts

Dachyate
Subject teacher

Shamali
Head of department

Head
Department of Commerce
S. M. D. L. College, Kalamboli.



Amranga
Principal

PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kala
Tel : Panvel, Dist : Raigad.

Name of the faculty : Mrs. Vaishali R. Dhamal

Class : S.Y.B.Com.

Course : Commerce-III & IV

Subject : Management-Functions and Challenges

Department : Commerce

Sr. No.	Month	Available Period	Topic / Sub. Topic to be Taught
SEMESTER-III			
1	Aug	11	<u>Introduction To Management</u> <ul style="list-style-type: none"> • Management- Concept, Nature, Functions, Managerial Skills & Competencies • Evolution of Management Thoughts Classical Approach: Scientific Management – F.W.Taylor's Contribution Classical Organisation Theory: Henri Fayol's Principles Neo Classical: Human Relations Approach – Elton Mayo's Hawthorne experiments • Modern Management Approach-Peter Drucker's Dimensions of Management, Indian Management Thoughts: Origin & Significance of Indian Ethos to Management.
2	Sept	10	<u>Planning & Decision Making</u> <ul style="list-style-type: none"> • Planning - Steps, Importance, Components, Coordination – Importance • M.B.O -Process, Advantages, Management By Exception- Advantages, Management Information System- Concept, Components • Decision Making - Techniques, Essentials of a Sound Decision Making, Impact of Technology on Decision Making.
3	Oct	12	<u>Organising</u> <ul style="list-style-type: none"> Organising-Steps, Organisation Structures – Features of Line & Staff Organisation, Matrix Organisation, Virtual Organisation, Formal v/s Informal Organisation. • Departmentation -Meaning -Bases, Span of Management- Factors Influencing Span of Management, Tall and Flat Organisation. • Delegation of Authority- Process, Barriers to Delegation, Principles of Effective Delegation, Decentralisation: Factors Influencing Decentralisation, Centralization v/s Decentralisation
4	Nov	12	<u>Directing And Controlling</u> <ul style="list-style-type: none"> • Motivation – Concept, Importance, Influencing factors. Importance of Communication, Barriers to effective Communication • Leadership- Concept, Functions, Styles, Qualities of a good leader. • Controlling – Concept, Steps, Essentials of good control system.



SES'S

Sbikshan Maharshi Dadasaheb Limaye, Art's, Commerce & Science College, Kalamboji.

Teaching Plan : Academic Year :- 2020-2021

Name of the Faculty : Mrs. Vaishali R. Dhamat

Class : S.Y.B.Com.

Course : Advertising

Subject : Advertising -I & II

Department : Commerce

Sr. No.	Month	Available Period	Topic / Sub. Topic to be Taught
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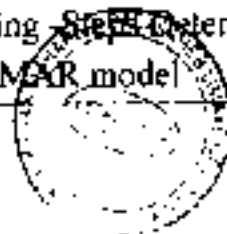
SEMESTER-III

1	Aug	12	<u>Introduction to Advertising</u> <ul style="list-style-type: none">• Integrated Marketing Communications (IMC)- Concept, Features, Elements, Role of advertising in IMC• Advertising: Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers.• Classification of advertising: Geographic, Media, Target audience and Functions.
2	Sept	11	<u>Advertising Agency</u> <ul style="list-style-type: none">• Ad Agency: Features, Structure and services offered, Types of advertising agencies . Agency selection criteria• Agency and Client: Maintaining Agency-Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation• Careers in advertising. Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modeling, Dubbing.
3	Oct	11	<u>Economic & Social Aspects of Advertising</u> <ul style="list-style-type: none">• Economic Aspects: Effect of advertising on consumer demand, monopoly and competition, Price.

			<ul style="list-style-type: none"> • Social aspects: Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture. • Pro Bono/Social advertising: Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body- Role of ASCI (Advertising Standard Council of India)
4	Nov	11	<p><u>Brand Building and Special Purpose Advertising</u></p> <ul style="list-style-type: none"> • Brand Building: The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises. • Special purpose advertising: Rural advertising, Political advertising, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising. • Trends in Advertising: Media, Ad spends, Ad Agencies, Execution of advertisements

SEMESTER-IV

5	Jan	11	<p><u>Media in Advertising</u></p> <ul style="list-style-type: none"> • Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media • New Age Media: Digital Media / Internet Advertising - Forms, Significance and Limitations • Media Research: Concept, Importance, Tool for regulation - ABC and Doordarshan Code
6	Feb	11	<p><u>Planning Advertising Campaigns</u></p> <ul style="list-style-type: none"> • Advertising Campaign: Concept, Advertising Campaign Planning - Steps in determining advertising objectives - DAGMAR model



SES's
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamholi.

Teaching Plan: Academic Year -2020- 21

Name of the Faculty :-

Class :- T.V.B.Com - Sem. Vth

Sub :- Business Economics

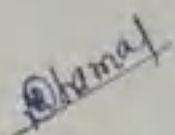
Department : Commerce

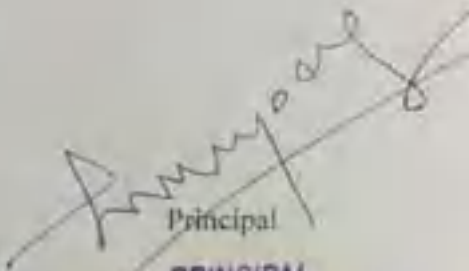
Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1	Aug	13	Macro Economic overview of India Overview of New Economic Policy-1991, - Role of Social Infrastructure with reference to education, health and family welfare. Sustainable Development Goals and Policy measures: Make in India, Invest in India, and Skill Development and Training Programs. Foreign Investment Policy Measures in India – Foreign Investment Promotion Board, FDI- MNCs and their role.
2	SEPT	14	2. National Agricultural Policy 2000: Objectives, Features and Implications Agricultural pricing and agricultural finance Agricultural Marketing Development-Agricultural Market infrastructure Market information- Marketing training- Enabling Environments-Recent developments
3.	oct	12	3. Policy Measures- Competition Act 2003, Disinvestment Policy, Micro, Small and Medium Enterprises (MSME sector) since 2007. Industrial Pollution in India: Meaning, Types, Effects and Control. Service Sector: Recent trends, role and growth in Healthcare and Tourism Industry
4.	nov	06	4. Banking Sector- Recent trends, issues and challenges in Banking and Insurance Industry Money Market – Structure, Limitations and Reforms
	DEC		Revision
SEMESTER - VI			
1	Jan	11	1. Theories of International Trade - Ricardo's Theory of Comparative Costs and the Heckscher- Ohlin Theory, Terms of Trade - Types and Limitations.
2	Feb	12	2. Commercial Trade Policy –Free Trade and Protection – Pros and Cons. Tariff and Non-Tariff Barriers: Meaning, Types and Effects International Economic Integration – Types and Objectives: -EU and Brexit, ASAEN



5	march	14	3. Balance of Payment: Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments. WTO- Recent Developments in TRIPS, TRIMS and GATS.
4	April	08	4. Foreign Exchange market Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange. Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage. Role of Central Bank in foreign exchange


Subject Teacher


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Head
Department of Commerce
S. M. D. L. College, Kalamboli.


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Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamholi.

Teaching Plan: Academic Year - 2020-21

Name of the Faculty:- Commerce


Class:- T.Y.B. Com - Sem. Vth & VIth

Sub:- Direct and Indirect Taxes


Department: Commerce

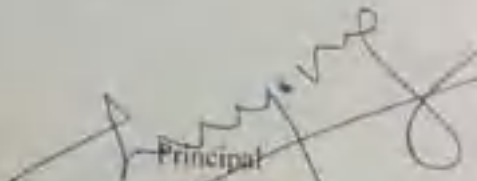
Sr.No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	Aug	05	Basic Terms Assesse, Assessment, Assessment Year, Annual value, Business, Capital Assets, Income, Person, Previous Year, Transfer
2.	Aug	05	Scope of Total Income & Residential Status Scope of Total Income (S: 5) Residential Status (S: 6) for individual assessee
3.	sept	12	Heads of Income (S: 14) 1. Salary (S: 15 to 17) 2. Income from House Properties (S: 22 to 27) 3. Profit and Gain from Business (S: 28, 30, 31, 32, 35, 35D, 36, 37, 40, 40A-43B) 4. Capital Gains (S: 45, 48, 49, 50, 54, 54 EC) restricted to computation of Capital gain on transfer of residential house property only 5. Income from Other Sources (S: 56 to S: 59) Exclusions from Total Income (S: 10) 6. Exclusion related to specified heads to be covered with relevant head. Eg. Salary, Business Income, Capital Gain, Income from Other Sources
4.	oct	13	Deduction from Total Income S 80A, S 80C, 80CCC, 80D, 80DD, 80E, 80U, 80TTA
5.	nov	11	Computation of Total Income for individual
	dec		Revision
SEMESTER - VI			
1	Jan	14	What is GST Need for GST Dual GST Model Definitions Section 2(17) Business Section 2(13) Consideration

			Section 2(45) Electronic Commerce Operator Section 2(52) Goods Section 2(56) India Section 2(78) Non taxable Supply Section 2(84) Person Section 2(90) Principal Supply Section 2(93) Recipient Section 2(98) Reverse charge Section 2(102) Services Section 2(105) Supplier Section 2(107) Taxable Person Section 2(108) Taxable Supply Goods & Services Tax Network (GSTN)
2	feb	11	Levy and Collection of Tax Scope of Supply Nontaxable Supplies Composite and Mixed Supplies Composition Levy Levy and Collection of tax Exemption from tax
3	march	07	Time, Place and Value of Supply Time of Supply Place of Supply Value of Supply
4	march	04	Input Tax Credit & Payment of Tax Persons not liable registration Compulsory registration Procedure for registration Deemed registration Cancellation of registration
5	April	09	Registration under GST Law Persons not liable registration Compulsory registration Procedure for registration Deemed registration Cancellation of registration


Subject Teacher




Head of the Department
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Principal
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College, Kalambohi,
Tal : Panvel, Dist : Raigad.

SES's
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli P

Teaching Plan : Academic Year -2020-2021

Name of the Faculty : - Dr. Arote B.M

Class :- S.V.B.Com

Sub :- Management A/C & Auditing

Department : Commerce

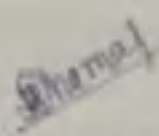
Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	Aug	13	<p>Introduction to Management Accounting</p> <p>Introduction to Management Accounting – Meaning, Nature, Scope, Functions,</p> <p>Decision Making Process, Financial Accounting V/s Management Accounting</p> <p>Analysis and Interpretation of Financial Statements</p> <p>Study of Balance sheet and Income statement / Revenue statements in vertical form suitable for analysis</p> <p>Relationship between items in Balance Sheet and Revenue statement</p> <p>Tools of analysis of Financial Statements (i) Trend analysis (ii) Comparative Statement (iii) Common Size Statement</p> <p>Note : (i) Problems based on trend analysis (ii) Short Problems on Comparative and Common sized statements</p>
2.	Sept	14	<p>Ratio Analysis and Interpretation</p> <p>(Based on Vertical Form of Financial statements) — Meaning, classification, Du Point Chart, advantages and Limitations)</p> <p>A. Balance Sheet Ratios: Current Ratio Liquid Ratio Stock Working Capital Ratio Proprietary Ratio Debt Equity Ratio Capital Gearing Ratio</p> <p>B. Revenue Statement Ratios: Gross Profit Ratio Expenses Ratio Operating Ratio Net Profit Ratio Net Operating Profit Ratio Stock Turnover Ratio</p> <p>C. Combined Ratio: Return on capital employed (including Long Term Borrowings) Return on proprietor's Fund (Shareholders Fund and Preference Capital) Return on Equity Capital Dividend Payout Ratio Debt Service Ratio Debtors Turnover Creditors Turnover</p> <p>(Practical Question on Ratio Analysis)</p>
3.	Oct	12	<p>Working Capital Management: (Practical Questions)</p> <p>Concept, Nature of Working Capital, Planning of Working Capital Estimation / Projection of Working Capital Requirement in case of Trading and Manufacturing Organization</p> <p>Operating Cycle</p>
4.	Nov	06	<p>Capital Budgeting</p>

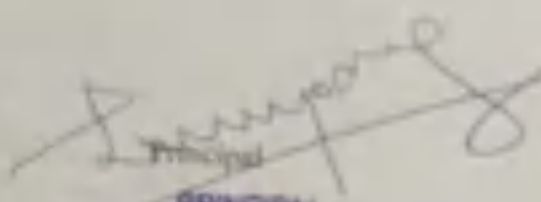
			<p>Introduction:</p> <p>The classification of capital budgeting projects</p> <p>Capital budgeting process</p> <p>Capital budgeting techniques - Payback Period, Accounting Rate of Return, Net Present Value, The Profitability Index, Discounted Payback. (Excluding calculation of cash flow)</p>
	Dec		Revision
SEMESTER - VI			
1	Jan	11	<p>Introduction to Auditing</p> <p>Basics – Financial Statements, Users of Information, Definition of Auditing, Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing.</p> <p>Errors & Frauds – Definitions, Reasons and Circumstances, Types of Error</p> <p>Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud.</p> <p>Principles of Audit, Materiality, True and Fair view</p> <p>Types of Audit – Meaning, Advantages, Disadvantages of Balance Sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit, Statutory Audit</p>
2	Feb	12	<p>Audit Planning, Procedures and Documentation</p> <p>Audit Planning – Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach</p> <p>Audit Program – Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before commencing Work, Overall Audit Approach.</p> <p>Audit Working Papers – Meaning, Importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books.</p>
3	March	14	<p>Auditing Techniques and Internal Audit Introduction</p> <p>Test Check – Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages, disadvantages, precautions.</p> <p>Audit Sampling – Audit Sampling, meaning, purpose, factors in determining sample size – Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items</p> <p>Evaluation of Sample Results Auditors Liability in conducting audit based on Sample</p>



			<p>Internal Control - Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, inherent limitations of internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks.</p> <p>Internal Audit: Meaning, basic principles of establishing internal audit, objectives, evaluation of internal audit by statutory auditor, usefulness of internal audit, internal audit Vs External Audit, Internal Checks Vs Internal Audit</p>
1	April	09	<p>Auditing Techniques: Vouching & Verification</p> <p>Audit of Income: Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received</p> <p>Audit of Expenditure: Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense</p> <p>Audit of Assets Book Debts / Debtors, Stocks - Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empty and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures</p> <p>Audit of Liabilities: Outstanding Expenses, Bills Payable Secured loans Unsecured Loans, Contingent Liabilities</p>


Subject Teacher


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Tal: Panvel, Dist: Raigad



SES's
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli.

Teaching Plan: Academic Year -2020-21

Name of the Faculty : - Dr. Arote B.M

Class:- S.Y.B.Com

Sub:- Business Economics III&IV

Department : Commerce

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	Aug	09	INTRODUCTION <ul style="list-style-type: none"> • Macroeconomics: Meaning, Scope and Importance. • Circular flow of aggregate income and expenditure and its Importance closed and open economy models. • The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National Income and Economic Welfare. • Trade Cycles: Features and Phases Classical Macroeconomics : Say's law of Markets - Features, Implications and Criticism
2.	sept	12	BASIC CONCEPTS OF KEYNESIAN ECONOMICS <ul style="list-style-type: none"> • The Principle of Effective Demand: Aggregate Demand and Aggregate Supply • Consumption Function: Properties, Assumptions and Implications • Investment function and Marginal Efficiency of capital • Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest
3.	oct	12	POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS The IS-LM model of integration of commodity and money markets Inflation and unemployment: Philips curve Stagflation : meaning, causes, and consequences •Supply side economics
4.	nov	12	MONEY, PRICES AND INFLATION Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money Demand for Money: Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money



			<p>Money and prices: Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach</p> <p>Inflation: Demand Pull Inflation and Cost Push Inflation - Effects of Inflation Nature of Inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting</p>
5.	Dec		Revision
SEMESTER - VI			
6.	Jan	14	<p>The Role of Government in an Economy</p> <ul style="list-style-type: none"> • Meaning and Scope of Public finance. • Major fiscal functions: allocation function, distribution function & stabilization function • Principle of Maximum Social Advantage: Dalton and Musgrave Views - the Principle in Practice, Limitations. • Relation between Efficiency, Markets and Governments- <p>The concept of Public Goods and the role of Government</p>
7.	Feb	11	<p>Public Revenue</p> <ul style="list-style-type: none"> • Sources of Public Revenue: tax and non-tax revenues • Objectives of taxation - Canons of taxation - Types of taxes: direct and indirect - Tax Base and Rates of taxation: proportional, progressive and regressive taxation. • Shifting of tax burden: Impact and incidence of taxation - Processes- factors influencing incidence of taxation • Economic Effects of taxation: on Income and Wealth, Consumption, Savings, Investments and Production. • Redistributive and Anti - Inflationary nature of taxation and their implications
8.	March	11	<p>Public Expenditure and Public Debt</p> <ul style="list-style-type: none"> • Public Expenditure: Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization - Theories of Public Expenditure: Wagner's Hypothesis and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth. • Significance of Public Expenditure: Social security contributions- Low Income Support and Social Insurance Programmers. <p>Public Debt :Classification - Burden of Debt Finance : Internal and External- Public Debt and Fiscal Solvency</p>
9.	April	08	<p>Fiscal Management and Financial Administration</p> <ul style="list-style-type: none"> • Fiscal Policy: Meaning, Objectives, constituents and Limitations. • Contra cyclical Fiscal Policy and Discretionary Fiscal Policy: Principles of Sound and Functional Finance • Budget- Meaning objectives and types - Structure of Union budget • Deficit Concepts- Fiscal Responsibility and Budget Management Act.



			Intergovernmental Fiscal Relations: fiscal federalism and fiscal decentralization - central-state financial relations - 14th Finance Commission recommendations
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Teaching Plan: Academic Year -2020-21

Name of the Faculty: - Dr. Arote B.M

Class :- F.Y.B.Com.

Sub: Foundation Course

Department : Commerce

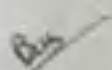
Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	Sept	06	Overview of Indian Society Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference
2.	Sept	07	Concept of Disparity- 1 Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violence against women, female feticide (declining sex ratio), and portrayal of women in media; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities
3.	Oct	12	Concept of Disparity-2 Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences
4.	Nov	11	The Indian Constitution Philosophy of the Constitution as set out in the Preamble; The structure of the Constitution-the Preamble, Main Body and Schedules; Fundamental Duties of the Indian Citizen; tolerance, peace and communal

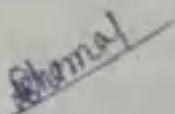


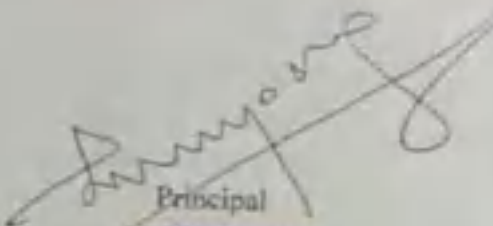
			harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution
5.	Dec	09	Significant Aspects of Political Processes The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics
SEMESTER - II			
6.	Jan	13	Globalization and Indian Society Understanding the concepts of liberalization, privatization and globalization; Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry; changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.
7.	Feb	12	Human Rights Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights; Human Rights constituents with special reference to Fundamental Rights stated in the Constitution
8.	March	11	Ecology Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life; Sustainable development- concept and components; poverty and environment
9.	April	05	Understanding Stress and Conflict Causes of stress and conflict in individuals and society; Agents of socialization and the role played by them in developing the individual; Significance of values, ethics and prejudices in developing the individual; Stereotyping and prejudice as significant factors in causing conflicts in society. Aggression and violence as the public expression of conflict



10	April	04	Managing Stress and Conflict in Contemporary Society Types of conflicts and use of coping mechanisms for managing individual stress; Maslow's theory of self-actualization; Different methods of responding to conflicts in society; Conflict-resolution and efforts towards building peace and harmony in society
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Kalamboli.

Teaching Plan: Academic Year -2020-21

Name of the Faculty: - Dr. Arofe B.M

Class: - F.Y.B. Com

Sub: - Business Economics I&II

Department: Commerce

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	Sept	12	Introduction Scope and Importance of Business Economics - basic tools- Opportunity Cost principle- Incremental and Marginal Concepts. Basic economic relations - functional relations; equations- Total, Average and Marginal relations- use of Marginal analysis in decision making. The basics of market demand, market supply and equilibrium price- shifts in the demand and supply curves and equilibrium
2.	Oct	14	Demand Analysis Demand Function - nature of demand curve under different markets, meaning, significance, types and measurement of elasticity of demand (Price, income cross and promotional)- relationship between elasticity of demand and revenue concepts Demand estimation and forecasting: Meaning and significance - methods of demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression)
3.	Nov	10	Supply and Production Decisions Production function: short run analysis with Law of Variable Proportions- Production function with two variable inputs- isoquants, ridge lines and least cost combination of inputs- Long run production function and Laws of Returns to Scale -

			expansion path - Economies and diseconomies of Scale and economies of scope
4	Dec	09	Cost of Production Cost concepts: Accounting cost and economic cost, implicit and explicit cost, social and private cost, historical cost and replacement cost, sunk cost and incremental cost - fixed and variable cost - total, average and marginal cost - Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed) Extensions of cost analysis: cost reduction through experience - LAC and Learning curve - Break even analysis (with business applications)

SEMESTER - II

6.	Jan	13	Market structure: Perfect competition and Monopoly Perfect competition and Monopoly models as two extreme cases - profit maximization and the competitive firm's supply curve - Short run and long run equilibrium of a firm and of industry - monopoly - Sources of monopoly power - short run and long- run equilibrium of a firm under Monopoly
7.	Feb	12	Pricing and Output Decisions under Imperfect Competition Monopolistic competition: competitive and monopolistic elements of monopolistic competition - equilibrium of a firm under monopolistic competition, monopolistic competition verses perfect competition - excess capacity and inefficiency - debate over role of advertising (topics to be taught using case studies from real life examples) Oligopolistic markets: key attributes of oligopoly - Collusive and non-collusive oligopoly market - Price rigidity - Cartels and price leadership models (with practical examples)
8.	March	11	Pricing Practices Cost oriented pricing methods: cost - plus (full cost) pricing, marginal cost pricing, Mark up pricing, discriminating pricing.

			multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)
9.	April	09	<p>Evaluating Capital Projects</p> <p>Meaning and importance of capital budgeting- steps in capital budgeting - +Techniques of investment appraisal: Payback Period Method, Net Present Value Method, and Internal Rate of Return Method (with numerical examples)</p>

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Teaching Plan: Academic Year -2020- 21

Name of the Faculty :-

Class :- T.V.B.Com - Sem. Vth

Sub :- Business Economics

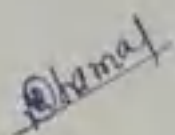
Department : Commerce

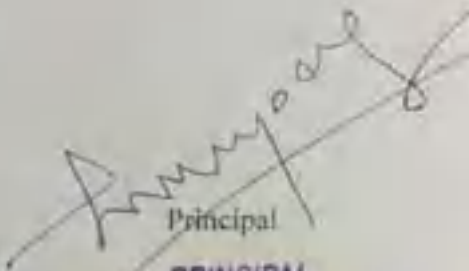
Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1	Aug	13	Macro Economic overview of India Overview of New Economic Policy-1991, - Role of Social Infrastructure with reference to education, health and family welfare. Sustainable Development Goals and Policy measures: Make in India, Invest in India, and Skill Development and Training Programs. Foreign Investment Policy Measures in India – Foreign Investment Promotion Board, FDI- MNCs and their role.
2	SEPT	14	2. National Agricultural Policy 2000: Objectives, Features and Implications Agricultural pricing and agricultural finance Agricultural Marketing Development-Agricultural Market infrastructure Market information- Marketing training- Enabling Environments-Recent developments
3.	oct	12	3. Policy Measures- Competition Act 2003, Disinvestment Policy, Micro, Small and Medium Enterprises (MSME sector) since 2007. Industrial Pollution in India: Meaning, Types, Effects and Control. Service Sector: Recent trends, role and growth in Healthcare and Tourism Industry
4.	nov	06	4. Banking Sector- Recent trends, issues and challenges in Banking and Insurance Industry Money Market – Structure, Limitations and Reforms
	DEC		Revision
SEMESTER - VI			
1	Jan	11	1. Theories of International Trade - Ricardo's Theory of Comparative Costs and the Heckscher- Ohlin Theory, Terms of Trade - Types and Limitations.
2	Feb	12	2. Commercial Trade Policy –Free Trade and Protection – Pros and Cons. Tariff and Non-Tariff Barriers: Meaning, Types and Effects International Economic Integration – Types and Objectives: -EU and Brexit, ASAEN



5	march	14	3. Balance of Payment: Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments. WTO- Recent Developments in TRIPS, TRIMS and GATS.
4	April	08	4. Foreign Exchange market Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange. Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage. Role of Central Bank in foreign exchange


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Teaching Plan: Academic Year - 2020-21

Name of the Faculty:- Commerce


Class:- T.Y.B. Com - Sem. Vth & VIth

Sub:- Direct and Indirect Taxes


Department: Commerce

Sr.No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	Aug	05	Basic Terms Assesse, Assessment, Assessment Year, Annual value, Business, Capital Assets, Income, Person, Previous Year, Transfer
2.	Aug	05	Scope of Total Income & Residential Status Scope of Total Income (S: 5) Residential Status (S: 6) for individual assessee
3.	sept	12	Heads of Income (S: 14) 1. Salary (S: 15 to 17) 2. Income from House Properties (S: 22 to 27) 3. Profit and Gain from Business (S: 28, 30, 31, 32, 35, 35D, 36, 37, 40, 40A-43B) 4. Capital Gains (S: 45, 48, 49, 50, 54, 54 EC) restricted to computation of Capital gain on transfer of residential house property only 5. Income from Other Sources (S: 56 to S: 59) Exclusions from Total Income (S: 10) 6. Exclusion related to specified heads to be covered with relevant head. Eg. Salary, Business Income, Capital Gain, Income from Other Sources
4.	oct	13	Deduction from Total Income S 80A, S 80C, 80CCC, 80D, 80DD, 80E, 80U, 80TTA
5.	nov	11	Computation of Total Income for individual
	dec		Revision
SEMESTER - VI			
1	Jan	14	What is GST Need for GST Dual GST Model Definitions Section 2(17) Business Section 2(13) Consideration

			Section 2(45) Electronic Commerce Operator Section 2(52) Goods Section 2(56) India Section 2(78) Non taxable Supply Section 2(84) Person Section 2(90) Principal Supply Section 2(93) Recipient Section 2(98) Reverse charge Section 2(102) Services Section 2(105) Supplier Section 2(107) Taxable Person Section 2(108) Taxable Supply Goods & Services Tax Network (GSTN)
2	feb	11	Levy and Collection of Tax Scope of Supply Nontaxable Supplies Composite and Mixed Supplies Composition Levy Levy and Collection of tax Exemption from tax
3	march	07	Time, Place and Value of Supply Time of Supply Place of Supply Value of Supply
4	march	04	Input Tax Credit & Payment of Tax Persons not liable registration Compulsory registration Procedure for registration Deemed registration Cancellation of registration
5	April	09	Registration under GST Law Persons not liable registration Compulsory registration Procedure for registration Deemed registration Cancellation of registration


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Teaching Plan : Academic Year -2020-2021

Name of the Faculty : - Dr. Arote B.M

Class :- S.V.B.Com

Sub :- Management A/C & Auditing


Department : Commerce

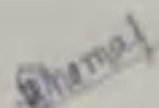
Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	Aug	13	<p>Introduction to Management Accounting</p> <p>Introduction to Management Accounting – Meaning, Nature, Scope, Functions,</p> <p>Decision Making Process, Financial Accounting V/s Management Accounting</p> <p>Analysis and Interpretation of Financial Statements</p> <p>Study of Balance sheet and Income statement / Revenue statements in vertical form suitable for analysis</p> <p>Relationship between items in Balance Sheet and Revenue statement</p> <p>Tools of analysis of Financial Statements (i) Trend analysis (ii) Comparative Statement (iii) Common Size Statement</p> <p>Note : (i) Problems based on trend analysis (ii) Short Problems on Comparative and Common sized statements</p>
2.	Sept	14	<p>Ratio Analysis and Interpretation</p> <p>(Based on Vertical Form of Financial statements) — Meaning, classification, Du Point Chart, advantages and Limitations)</p> <p>A. Balance Sheet Ratios: Current Ratio Liquid Ratio Stock Working Capital Ratio Proprietary Ratio Debt Equity Ratio Capital Gearing Ratio</p> <p>B. Revenue Statement Ratios: Gross Profit Ratio Expenses Ratio Operating Ratio Net Profit Ratio Net Operating Profit Ratio Stock Turnover Ratio</p> <p>C. Combined Ratio: Return on capital employed (including Long Term Borrowings) Return on proprietor's Fund (Shareholders Fund and Preference Capital) Return on Equity Capital Dividend Payout Ratio Debt Service Ratio Debtors Turnover Creditors Turnover</p> <p>(Practical Question on Ratio Analysis)</p>
3.	Oct	12	<p>Working Capital Management: (Practical Questions)</p> <p>Concept, Nature of Working Capital, Planning of Working Capital Estimation / Projection of Working Capital Requirement in case of Trading and Manufacturing Organization</p> <p>Operating Cycle</p>
4.	Nov	06	<p>Capital Budgeting</p>

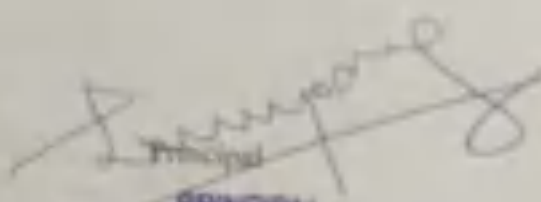
			<p>Introduction:</p> <p>The classification of capital budgeting projects</p> <p>Capital budgeting process</p> <p>Capital budgeting techniques - Payback Period, Accounting Rate of Return, Net Present Value, The Profitability Index, Discounted Payback. (Excluding calculation of cash flow)</p>
	Dec		Revision
SEMESTER - VI			
1	Jan	11	<p>Introduction to Auditing</p> <p>Basics – Financial Statements, Users of Information, Definition of Auditing, Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing.</p> <p>Errors & Frauds – Definitions, Reasons and Circumstances, Types of Error</p> <p>Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud.</p> <p>Principles of Audit, Materiality, True and Fair view</p> <p>Types of Audit – Meaning, Advantages, Disadvantages of Balance Sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit, Statutory Audit</p>
2	Feb	12	<p>Audit Planning, Procedures and Documentation</p> <p>Audit Planning – Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach</p> <p>Audit Program – Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before commencing Work, Overall Audit Approach.</p> <p>Audit Working Papers – Meaning, Importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books.</p>
3	March	14	<p>Auditing Techniques and Internal Audit Introduction</p> <p>Test Check – Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages, disadvantages, precautions.</p> <p>Audit Sampling – Audit Sampling, meaning, purpose, factors in determining sample size – Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items</p> <p>Evaluation of Sample Results Auditors Liability in conducting audit based on Sample</p>



			<p>Internal Control - Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, inherent limitations of internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks.</p> <p>Internal Audit: Meaning, basic principles of establishing internal audit, objectives, evaluation of internal audit by statutory auditor, usefulness of internal audit, internal audit Vs External Audit, Internal Checks Vs Internal Audit</p>
1	April	09	<p>Auditing Techniques: Vouching & Verification</p> <p>Audit of Income: Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received</p> <p>Audit of Expenditure: Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense</p> <p>Audit of Assets Book Debts / Debtors, Stocks - Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empty and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures</p> <p>Audit of Liabilities: Outstanding Expenses, Bills Payable Secured loans Unsecured Loans, Contingent Liabilities</p>


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Teaching Plan: Academic Year -2020-21

Name of the Faculty : - Dr. Arote B.M

Class:- S.Y.B.Com

Sub:- Business Economics III&IV

Department : Commerce

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	Aug	09	INTRODUCTION <ul style="list-style-type: none"> • Macroeconomics: Meaning, Scope and Importance. • Circular flow of aggregate income and expenditure and its Importance closed and open economy models. • The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National Income and Economic Welfare. • Trade Cycles: Features and Phases Classical Macroeconomics : Say's law of Markets - Features, Implications and Criticism
2.	sept	12	BASIC CONCEPTS OF KEYNESIAN ECONOMICS <ul style="list-style-type: none"> • The Principle of Effective Demand: Aggregate Demand and Aggregate Supply • Consumption Function: Properties, Assumptions and Implications • Investment function and Marginal Efficiency of capital • Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest
3.	oct	12	POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS The IS-LM model of integration of commodity and money markets Inflation and unemployment: Philips curve Stagflation : meaning, causes, and consequences •Supply side economics
4.	nov	12	MONEY, PRICES AND INFLATION Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money Demand for Money: Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money



			<p>Money and prices: Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach</p> <p>Inflation: Demand Pull Inflation and Cost Push Inflation - Effects of Inflation Nature of Inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting</p>
5.	Dec		Revision
SEMESTER - VI			
6.	Jan	14	<p>The Role of Government in an Economy</p> <ul style="list-style-type: none"> • Meaning and Scope of Public finance. • Major fiscal functions: allocation function, distribution function & stabilization function • Principle of Maximum Social Advantage: Dalton and Musgrave Views - the Principle in Practice, Limitations. • Relation between Efficiency, Markets and Governments- <p>The concept of Public Goods and the role of Government</p>
7.	Feb	11	<p>Public Revenue</p> <ul style="list-style-type: none"> • Sources of Public Revenue: tax and non-tax revenues • Objectives of taxation - Canons of taxation - Types of taxes: direct and indirect - Tax Base and Rates of taxation: proportional, progressive and regressive taxation. • Shifting of tax burden: Impact and incidence of taxation - Processes- factors influencing incidence of taxation • Economic Effects of taxation: on Income and Wealth, Consumption, Savings, Investments and Production. • Redistributive and Anti - Inflationary nature of taxation and their implications
8.	March	11	<p>Public Expenditure and Public Debt</p> <ul style="list-style-type: none"> • Public Expenditure: Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization - Theories of Public Expenditure: Wagner's Hypothesis and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth. • Significance of Public Expenditure: Social security contributions- Low Income Support and Social Insurance Programmers. <p>Public Debt :Classification - Burden of Debt Finance : Internal and External- Public Debt and Fiscal Solvency</p>
9.	April	08	<p>Fiscal Management and Financial Administration</p> <ul style="list-style-type: none"> • Fiscal Policy: Meaning, Objectives, constituents and Limitations. • Contra cyclical Fiscal Policy and Discretionary Fiscal Policy: Principles of Sound and Functional Finance • Budget- Meaning objectives and types - Structure of Union budget • Deficit Concepts- Fiscal Responsibility and Budget Management Act.



			Intergovernmental Fiscal Relations: fiscal federalism and fiscal decentralization - central-state financial relations - 14th Finance Commission recommendations
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[Signature]
Subject Teacher

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Head of the Department
Head
Department of Commerce
S. M. D. L. College, Kalamboli.

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Principal
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli.
Tal : Panvel, Dist : Raigad.



SES's
Shikshan Maharishi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli.

Teaching Plan: Academic Year -2020-21

Name of the Faculty: - Dr. Arote B.M

Class :- F.Y.B.Com.

Sub: Foundation Course

Department : Commerce

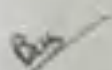
Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	Sept	06	Overview of Indian Society Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference
2.	Sept	07	Concept of Disparity- 1 Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violence against women, female feticide (declining sex ratio), and portrayal of women in media; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities
3.	Oct	12	Concept of Disparity-2 Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences
4.	Nov	11	The Indian Constitution Philosophy of the Constitution as set out in the Preamble; The structure of the Constitution-the Preamble, Main Body and Schedules; Fundamental Duties of the Indian Citizen; tolerance, peace and communal

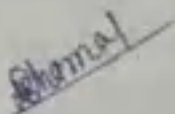


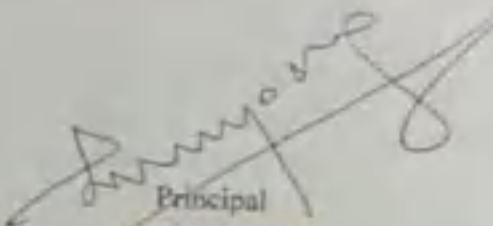
			harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution
5.	Dec	09	Significant Aspects of Political Processes The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics
SEMESTER - II			
6.	Jan	13	Globalization and Indian Society Understanding the concepts of liberalization, privatization and globalization; Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry; changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.
7.	Feb	12	Human Rights Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights; Human Rights constituents with special reference to Fundamental Rights stated in the Constitution
8.	March	11	Ecology Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life; Sustainable development- concept and components; poverty and environment
9.	April	05	Understanding Stress and Conflict Causes of stress and conflict in individuals and society; Agents of socialization and the role played by them in developing the individual; Significance of values, ethics and prejudices in developing the individual; Stereotyping and prejudice as significant factors in causing conflicts in society. Aggression and violence as the public expression of conflict



10	April	04	Managing Stress and Conflict in Contemporary Society Types of conflicts and use of coping mechanisms for managing individual stress; Maslow's theory of self-actualization; Different methods of responding to conflicts in society; Conflict-resolution and efforts towards building peace and harmony in society
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Tal : Panvel, Dist : Raigad.



SES's
Shikshan Maharishi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalamboli.

Teaching Plan: Academic Year -2020-21

Name of the Faculty: - Dr. Arofe B.M

Class: - F.Y.B. Com

Sub: - Business Economics I&II

Department: Commerce

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	Sept	12	<p>Introduction Scope and Importance of Business Economics - basic tools- Opportunity Cost principle- Incremental and Marginal Concepts. Basic economic relations - functional relations; equations- Total, Average and Marginal relations- use of Marginal analysis in decision making.</p> <p>The basics of market demand, market supply and equilibrium price- shifts in the demand and supply curves and equilibrium</p>
2.	Oct	14	<p>Demand Analysis</p> <p>Demand Function - nature of demand curve under different markets, meaning, significance, types and measurement of elasticity of demand (Price, income cross and promotional)- relationship between elasticity of demand and revenue concepts</p> <p>Demand estimation and forecasting: Meaning and significance - methods of demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression)</p>
3.	Nov	10	<p>Supply and Production Decisions</p> <p>Production function: short run analysis with Law of Variable Proportions- Production function with two variable inputs- isoquants, ridge lines and least cost combination of inputs- Long run production function and Laws of Returns to Scale -</p>

			expansion path - Economies and diseconomies of Scale and economies of scope
4	Dec	09	Cost of Production Cost concepts: Accounting cost and economic cost, implicit and explicit cost, social and private cost, historical cost and replacement cost, sunk cost and incremental cost - fixed and variable cost - total, average and marginal cost - Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed) Extensions of cost analysis: cost reduction through experience - LAC and Learning curve - Break even analysis (with business applications)

SEMESTER - II

6.	Jan	13	Market structure: Perfect competition and Monopoly Perfect competition and Monopoly models as two extreme cases - profit maximization and the competitive firm's supply curve - Short run and long run equilibrium of a firm and of industry - monopoly - Sources of monopoly power - short run and long- run equilibrium of a firm under Monopoly
7.	Feb	12	Pricing and Output Decisions under Imperfect Competition Monopolistic competition: competitive and monopolistic elements of monopolistic competition - equilibrium of a firm under monopolistic competition, monopolistic competition verses perfect competition - excess capacity and inefficiency - debate over role of advertising (topics to be taught using case studies from real life examples) Oligopolistic markets: key attributes of oligopoly - Collusive and non-collusive oligopoly market - Price rigidity - Cartels and price leadership models (with practical examples)
8.	March	11	Pricing Practices Cost oriented pricing methods: cost - plus (full cost) pricing, marginal cost pricing, Mark up pricing, discriminating pricing.

			multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)
9.	April	09	<p>Evaluating Capital Projects</p> <p>Meaning and importance of capital budgeting- steps in capital budgeting - +Techniques of investment appraisal: Payback Period Method, Net Present Value Method, and Internal Rate of Return Method (with numerical examples)</p>

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Subject Teacher

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Head of the Department
Head
Department of Commerce
S. M. D. L. College, Kalamboli.

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Principal
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli.
Tal: Parner Dist: Raigad
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College, Kalamboli.
Tal: Parner Dist: Raigad



BES's

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year – 2020-21

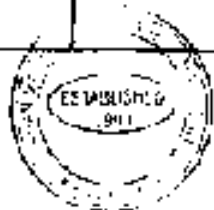
Name of the Faculty :- Mali Pratiksha P.

Class :-F.Y.Bcom.

Sub :- ENVIRONMENTAL STUDIES

Department : COMMERCE

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER – V ENVIRONMENTAL STUDIES – I			
1.	August - 2020	08	UNIT-I ENVIRONMENT and Ecosystem <ul style="list-style-type: none">• Environment – Meaning, Definition, Scope and its components• Concept of an Ecosystem – definition, Characteristics, components and types• Functioning and structure• Food Chain and Food Web, Ecological Pyramids
2.	September -2020	16	<ul style="list-style-type: none">• Man and environment relationship Importance and scope of Environmental Studies UNIT-II Natural Resources and Sustainable Development <ul style="list-style-type: none">• Meaning and definitions – classification and types of resources,• Factors influencing resources utilization• Resources conservation – meaning and methods• Conventional and non-conventional resources• Problem associated with and management of water, Forest and energy resources• Resources utilization and sustainable development
3.	October 2020	16	UNIT-III Population and Emerging Issues of Development <ul style="list-style-type: none">• Population explosion in the world and in India and arising concerns• Demographic Transition Theory• Pattern of population growth in the world and in India and associated problems• Measures taken to control Population growth in India• Human Population and environment• Environment and Human Health• Human Development Index• The World Happiness Index.
4.	November- 2020	13	UNIT-IV Urbanization and Environment <ul style="list-style-type: none">• Concept of Urbanisation• Problems of migration and urban environment



			<ul style="list-style-type: none"> Changing land use, crowding and stress on urban resources, Degradation of air and water Loss of soil cover impact on biodiversity Urban heat islands Emerging Smart Cities and safe cities in India Sustainable Cities
5.	December – 2020	08	Map Reading – <ul style="list-style-type: none"> Reading of Thematic Maps Located bars, Circles, Pie charts, Isopleths, Choropleth, and Flow map, Pictograms – Only reading and interpretation. Map Filling <ul style="list-style-type: none"> Map filling of World (Environmentally significant Features) using point, line and polygon segment.
SEMESTER – VI ENVIRONMENTAL STUDIES – II			
6.	January – 2021	10	UNIT-I Solid Waste Management for Sustainable Society <ul style="list-style-type: none"> Classification of solid wastes Types and Sources of solid Waste Effects of Solid Waste pollution – Health hazards Environmental impacts Solid Waste Management Solid waste management in Mumbai Schemes and initiatives run by MCGM Role of citizen in Waste Management in Urban and Rural areas.
7.	February – 2020	19	UNIT-II Agriculture and Industrial Development <ul style="list-style-type: none"> Environmental Problems Associated with Agriculture: Loss of Productivity, Land Degradation, desertification Uneven Food Production- Hunger, Malnutrition and Food Security Sustainable Agriculture practices Environmental Problems Associated with Industries – pollution – Global warming, Ozone Layer Depletion, Acid rain Sustainable Industrial practise Green Business and Green Consumerism Corporate Social Responsibility towards environment
8.	March– 2021	19	UNIT-III Tourism and Environment <ul style="list-style-type: none"> Tourism: Meaning, Nature, Scope and importance Typology of tourism - Classification Tourism potentials in India and challenges before India New Tourism Policy of India Consequences of tourism

			<ul style="list-style-type: none"> • Positive and Negative Impacts on Economy, Culture and Environment <p>Ecotourism.</p>
9.	April - 2021	19	<p>UNIT-IV Environmental Movements and Management</p> <ul style="list-style-type: none"> • Environmental movements in India : Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghats Movement • Environmental Management: Concept, need and relevance • Concept of ISO 14000 and 16000 • Concept of Carbon Bank and Carbon Credit • EIAA, ecological footprint • Environment Protection Acts; • Concept and components of Geospatial Technology <p>Applications of GST in Environmental Management.</p> <p>Map Filling –</p> <ul style="list-style-type: none"> • Map filling of Konkan and Mumbai (Environmentally significant features)

Pooji
Subject Teacher

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Head of the Department



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Dr. S. CHAKRABARTY
PRINCIPAL
S. M. D. L. College,
Kalamboli, Navi Mumbai

Name of the Faculty: - Ms. Tejashri Patil

Class: F.Y.BSc(CS)

Subject: Database Management System, SOFT SKILLS, Programming with C,
Data Structure

Department: Computer Science

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	AUG	15L	Subject: Database System UNIT I: Introduction to DBMS – Database, DBMS – Definition, Overview of DBMS, Advantages of DBMS, Levels of abstraction, Data independence, DBMS Architecture Data models - Client/Server Architecture, Object Based Logical Model, Record Based Logical Model (relational, hierarchical, network) Entity Relationship Model - Entities, attributes, entity sets, relations, relationship sets, Additional constraints (key constraints, participation constraints, weak entities, aggregation / generalization, Conceptual Design using ER (entities VS attributes, Entity Vs relationship, binary Vs ternary, constraints beyond ER) Relational data model – Domains, attributes, Tuples and Relations, Relational Model Notation, Characteristics of Relations, Relational Constraints - primary key, referential integrity, unique constraint, Null constraint, Check constraint ER to Table - Entity to Table, Relationship to tables with and without key constraints.
2.	SEP	15L	UNIT II: Schema refinement and Normal forms: Functional dependencies, first, second, third, and BCNF normal forms based on primary keys, lossless join decomposition. Relational Algebra operations (selection,

			<p>projection, set operations union, intersection, difference, cross product, Joins – conditional, equi join and natural joins, division)</p> <p>DDL Statements – Creating Databases, Using Databases, datatypes, Creating Tables (with integrity constraints – primary key, default, check, not null), Altering Tables, Renaming Tables, Dropping Tables, Truncating Tables, Backing Up and Restoring databases</p> <p>DML Statements – Viewing the structure of a table insert, update, delete, Select all columns, specific columns, unique records, conditional select, in clause, between clause, limit, aggregate functions (count, min, max, avg, sum), group by clause, having clause</p>
3.	OCT-NOV	15L	<p>UNIT III:</p> <p>Functions – String Functions (concat, instr, left, right, mid, length, lcase/lower, ucase/upper, replace, strempl, trim, ltrim, rtrim), Math Functions (abs, ceil, floor, mod, pow, sqrt, round, truncate) Date Functions (adddate, datediff, day, month, year, hour, min, sec, now, reverse)</p> <p>Joining Tables – inner join, outer join (left outer, right outer, full outer)</p> <p>Subqueries – subqueries with IN, EXISTS, subqueries restrictions, Nested subqueries, ANY/ALL clause, correlated subqueries</p> <p>Database Protection: Security Issues, Threats to Databases, Security Mechanisms, Role of DBA, Discretionary Access Control</p> <p>Views (creating, altering dropping, renaming and manipulating views)</p> <p>DCL Statements (creating/dropping users, privileges introduction, granting/revoking privileges, viewing privileges)</p>
4.	AUG	15L	<p>SUBJECT-Soft Skills Development</p> <p>UNIT I:</p> <p>Introduction to Soft Skills and Hard Skills</p> <p>Personality Development: Knowing Yourself, Positive Thinking, Johari's Window, Communication Skills, Non-verbal Communication, Physical Fitness</p> <p>Emotional Intelligence: Meaning and Definition, Need for</p>

			<p>Emotional Intelligence, Intelligence Quotient versus Emotional Intelligence Quotient, Components of Emotional Intelligence, Competencies of Emotional Intelligence, Skills to Develop Emotional Intelligence Etiquette and Mannerism: Introduction, Professional Etiquette, Technology Etiquette</p> <p>Communication Today: Significance of Communication, GSC's 3M Model of Communication, Vitality of the Communication Process, Virtues of Listening, Fundamentals of Good Listening, Nature of Non-Verbal Communication, Need for Intercultural Communication, Communicating Digital World</p>
5.	AUG-SEP	15L	<p>UNIT II:</p> <p>Academic Skills</p> <p>Employment Communication: Introduction, Resume, Curriculum Vitae, Scannable Resume, Developing an Impressive Resume, Formats of Resume, Job Application or Cover Letter</p> <p>Professional Presentation: Nature of Oral Presentation, Planning a Presentation, Preparing the Presentation, Delivering the Presentation</p> <p>Job Interviews: Introduction, Importance of Resume, Definition of Interview, Background Information, Types of Interviews, Preparatory Steps for Job Interviews, Interview Skill Tips, Changes in the Interview Process, FAQ During Interviews</p> <p>Group Discussion: Introduction, Ambience/Seating Arrangement for Group Discussion, Importance of Group Discussions, Difference between Group Discussion, Panel Discussion and Debate, Traits, Types of Group Discussions, topic based and Case based Group Discussion, Individual Traits</p>
6.	OCT-NOV	15L	<p>UNIT III:</p> <p>Professional Skills Creativity at Workplace: Introduction, Current Workplaces, Creativity, Motivation, Nurturing Hobbies at Work, The Six Thinking Hat Method</p> <p>Ethical Values: Ethics and Society, Theories of Ethics, Correlation between Values and Behavior, Nurturing Ethics, Importance of Work Ethics,</p>

			<p>Problems in the Absence of Work Ethics</p> <p>Capacity Building: Learn, Unlearn and Relearn: Capacity Building, Elements of Capacity Building, Zones of Learning, Ideas for Learning, Strategies for Capacity Building</p> <p>Leadership and Team Building: Leader and Leadership, Leadership Traits, Culture and Leadership, Leadership Styles and Trends, Team Building, Types of Teams</p> <p>Decision Making and Negotiation: Introduction to Decision Making, Steps for Decision Making, Decision Making Techniques, Negotiation Fundamentals, Negotiation Styles, Major Negotiation Concepts</p> <p>Stress and Time Management: Stress, Sources of Stress, Ways to Cope with Stress</p>
SEMESTER - II			
6.	JAN-FEB	15L	<p>SUBJECT: Programming with –C</p> <p>UNIT I:</p> <p>Structure of C program: Header and body, Use of comments. Interpreters vs compilers, Python vs C. Compilation of a program. Formatted I/O: printf(), scanf().</p> <p>Data: Variables, Constants, data types like: int, float char, double and void, short and long size qualifiers, signed and unsigned qualifiers. Compare with datatypes in Python. Compare static typing in C vs dynamic typing in Python</p> <p>Variables: Declaring variables, scope of the variables according to block, hierarchy of data types. Compare explicit declarations in C with implicit declarations in Python.</p> <p>Types of operators: Arithmetic, relational, logical, compound assignment, increment and decrement, conditional or ternary, bitwise and comma operators. Precedence and order of evaluation, statements and Expressions. Automatic and explicit type conversion.</p> <p>Iterations: Control statements for decision making: (i) Branching: if statement, else.. if statement, (does the writer mean if-else or nested ifs)switch statement. (ii) Looping: while loop, do.. while, for loop. (iii) Jump statements: break,</p>

			continue and goto
7.	FEB-MAR	15L	<p>UNIT II:</p> <p>Arrays: (One and two dimensional), declaring array variables, initialization of arrays, accessing array elements. Compare array types of C with list and tuple types of Python.</p> <p>Data Input and Output functions: Character I/O format: getch(), getche(), getchar(), getc(), gets(), putchar(), putc(), puts().</p> <p>Manipulating Strings: Declaring and initializing String variables, Character and string handling functions. Compare with Python strings.</p> <p>Functions: Function declaration, function definition, Global and local variables, return statement, Calling a function by passing values.</p> <p>Recursion: Definition, Recursive functions.</p>
8.	MARCH-APR	15L	<p>UNIT III:</p> <p>Pointer: Fundamentals, Pointer variables, Referencing and de-referencing, Pointer Arithmetic, Using Pointers with Arrays, Using Pointers with Strings, Array of Pointers, Pointers as function arguments, Functions returning pointers.</p> <p>Dynamic Memory Allocation: malloc(), calloc(), realloc(), free() and sizeof operator. Compare with automatic garbage collection in Python.</p> <p>Structure: Declaration of structure, reading and assignment of structure variables, Array of structures, arrays within structures, structures within structures. Compare C structures with Python tuples.</p> <p>Unions: Defining and working with unions.</p> <p>File handling: Different types of files like text and binary, Different types of functions: fopen(), fclose(), fgetc(), fputc(), fgets(), fputs(), fscanf(), fprintf(), getw(), putw(), fread(), fwrite(), fseek().</p>
9.	JAN-FEB	15L	<p>SUBJECT: Data Structure</p> <p>UNIT I:</p> <p>Abstract Data Types: Introduction, The Data Abstract Data Type, Bags, Iterators. Application</p> <p>Arrays: Array Structure, Python List, Two Dimensional Arrays, Matrix Abstract Data Type, Application</p>

			<p>Sets and Maps: Sets-Set ADT, Selecting Data Structure, List based Implementation, Maps-Map ADT, List Based Implementation, Multi-Dimensional Arrays-Multi-Array ADT, Implementing Multiarrays, Application</p> <p>Algorithm Analysis: Complexity Analysis-Big-O Notation, Evaluating Python Code, Evaluating Python List, Amortized Cost, Evaluating Set ADT, Application</p> <p>Searching and Sorting: Searching-Linear Search, Binary Search, Sorting-Bubble, Selection and Insertion Sort, Working with Sorted Lists-Maintaining Sorted List, Maintaining sorted Lists.</p>
	FEB-MAR	15L	<p>UNIT II:</p> <p>Linked Structures: Introduction, Singly Linked List-Traversing, Searching, Prepending and Removing Nodes, Bag ADT-Linked List Implementation, Comparing Implementations, Linked List Iterators, More Ways to Build Kinked Lists, Applications-Polynomials</p> <p>Stacks: Stack ADT, Implementing Stacks-Using Python List, Using Linked List, Stack Applications-Balanced Delimiters, Evaluating Postfix Expressions</p> <p>Queues: Queue ADT, Implementing Queue-Using Python List, Circular Array, Using List, Priority Queues- Priority Queue ADT, Bounded and unbounded Priority Queues</p> <p>Advanced Linked List: Doubly Linked Lists-Organization and Operation, Circular Linked List-Organization and Operation, Multi Lists</p>
10.	MARCH-APR	15L	<p>UNIT III:</p> <p>Recursion: Recursive Functions, Properties of Recursion, Its working, Recursive Applications</p> <p>Hash Table: Introduction, Hashing-Linear Probing, Clustering, Rehashing, Separate Chaining, Hash Functions</p> <p>Advanced Sorting: Merge Sort, Quick Sort, Radix Sort, Sorting Linked List</p> <p>Binary Trees: Tree Structure, Binary Tree-Properties, Implementation and Traversals, Expression Trees, Heaps and Heapsort, Search Trees</p>

Patil

Subject Teacher

(MS. TEJASHRI PATIL)

Mhatare

Head of the Department

(MS. ANITA MHATRE)

Dr. S. C. Lahupachang

Principal

PRINCIPAL

(DR. S. C. LAHUPACHANG)

SES'S S. M. Gadhakhedkar

A. C. S. College, Kalambohi,

Tal. - Panvel, Dist. - Raigad.



Teaching Plan: Academic Year -2020-21

Name of the Faculty: Ms. Tejashri Patil

Class: S.Y.BSc(CS)

Subject: OPERATING SYSTEM, Software Engineering, Android

Developer Fundamentals


Department: Computer Science

Sr. No	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III			
1.	JULY	15L	Subject: OPERATING SYSTEM UNIT I: Introduction and Operating-Systems Structures: Definition of Operating system, Operating System's role, Operating-System Operations, Functions of Operating System, Computing Environments Operating-System Structures: Operating-System Services, User and Operating-System Interface, System Calls, Types of System Calls, Operating-System Structure Processes: Process Concept, Process Scheduling, Operations on Processes, Interprocess Communication Threads: Overview, Multicore Programming, Multithreading Models
2.	JULY-AUGUST	15L	UNIT II: Process Synchronization: General structure of a typical process, race condition, The Critical-Section Problem, Peterson's Solution, Synchronization Hardware, Mutex Locks, Semaphores, Classic Problems of Synchronization, Monitors CPU Scheduling: Basic Concepts, Scheduling Criteria, Scheduling Algorithms (FCFS, SJF, SRTF, Priority, RR, Multilevel Queue Scheduling, Multilevel Feedback Queue Scheduling), Thread Scheduling Deadlocks: System Model, Deadlock Characterization, Methods for Handling

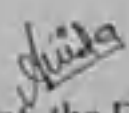
			Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock
3.	SEP-OCT	15L	UNIT III: Main Memory: Background, Logical address space, Physical address space, MMU, Swapping, Contiguous Memory Allocation, Segmentation, Paging, Structure of the Page Table Virtual Memory: Background, Demand Paging, Copy-on-Write, Page Replacement, Allocation of Frames, Thrashing Mass-Storage Structure: Overview, Disk Structure, Disk Scheduling, Disk Management File-System Interface: File Concept, Access Methods, Directory and Disk Structure, File-System Mounting, File Sharing File-System Implementation: File-System Structure, File-System Implementation, Directory Implementation, Allocation Methods, Free-Space Management 15L
SEMESTER - IV			
4.	JAN-FEB	15L	SUBJECT: Software Engineering UNIT I: Introduction: The Nature of Software, Software Engineering, The Software Process, Generic Process Model, The Waterfall Model, Incremental Process Models, Evolutionary Process Models, Concurrent Models, Component-Based Development, The Unified Process Phases, Agile Development- Agility, Agile Process, Extreme Programming Requirement Analysis and System Modeling: Requirements Engineering, Eliciting Requirements, SRS Validation, Components of 15L SRS, Characteristics of SRS , Object-oriented design using the UML - Class diagram, Object diagram, Use case diagram, Sequence diagram, Collaboration diagram, State chart diagram, Activity diagram, Component diagram, Deployment diagram
5.	FEB-MAR	15L	UNIT II: System Design: System/Software Design, Architectural Design, Low-Level Design Coupling and Cohesion, Functional-Oriented Versus The

			<p>Object-Oriented Approach, Design Specifications, Verification for Design, Monitoring and Control for Design Software Measurement and Metrics: Product Metrics – Measures, Metrics, and Indicators, Function-Based Metrics, Metrics for Object-Oriented Design, Operation-Oriented Metrics, User Interface Design Metrics, Metrics for Source Code, Halstead Metrics Applied to Testing, Metrics for Maintenance, Cyclomatic Complexity, Software Measurement - Size-Oriented, Function-Oriented Metrics, Metrics for Software Quality</p> <p>Software Project Management: Estimation in Project Planning Process –Software Scope And Feasibility, Resource Estimation, Empirical Estimation Models – COCOMO II, Estimation for Agile Development, The Make/Buy Decision, Project Scheduling - Basic Principles, Relationship Between People and Effort, Effort Distribution, Time-Line Charts</p>
6.	MARCH-APR	15L	<p>UNIT III:</p> <p>Risk Management - Software Risks, Risk Identification, Risk Projection and Risk Refinement, RMMM Plan Software Quality Assurance: Elements of SQA, SQA Tasks, Goals, and Metrics, Formal Approaches to SQA, Six Sigma, Software Reliability, The ISO 9000 Quality Standards, Capability Maturity Model Software Testing : Verification and Validation, Introduction to Testing, Testing Principles, Testing Objectives, Test Oracles, Levels of Testing, White-Box Testing/Structural Testing, Functional/Black-Box Testing, Test Plan, Test-Case Design</p>
7.	JAN-FEB	15L	<p>SUBJECT: Android Developer Fundamentals</p> <p>UNIT I:</p> <p>What is Android? Obtaining the required tools, creating first android app, understanding the components of screen, adapting display orientation, action bar, Activities and Intents, Activity Lifecycle and Saving State, Basic Views: TextView, Button, ImageButton, EditText, CheckBox, ToggleButton, RadioButton, and RadioGroup Views, ProgressBar View, AutoCompleteTextView, TimePicker View, DatePicker View, ListView View, Spinner View</p>


8.	FEB- MAR	15L	UNIT II: User Input Controls, Menus, Screen Navigation, RecyclerView, Drawables, Themes and Styles, Material design, Providing resources for adaptive layouts, AsyncTask and AsyncTaskLoader, Connecting to the Internet, Broadcast receivers, Services, Notifications, Alarm managers, Transferring data efficiently
9.	MARCH- APR	15L	UNIT III: Data - saving, retrieving, and loading: Overview to storing data, Shared preferences, SQLite primer, store data using SQLite database, Content Providers, loaders to load and display data, Permissions, performance and security, Firebase and AdMob, Publish your app


Subject Teacher

(MS. TEJASHRI PATIL)


Head of the Department

(MS. ANITA MHATRE)


Principal

SES'S S. M. Dadasaheb Limaye
ASS College, Kharadoli,
Tal.- Parvel, Dist - Raigad.



SES's
Shikshan Mahārshi Dadasaheb Limaye, Arts, Commerce and Science College,
Kalaamboli.

Teaching Plan: Academic Year -2020-21

Name of the Faculty: - Ms. Tejashri Patil

Class: T.Y.BSc(CS)

Subject: Information and network security, Web services, Wireless Sensor Networks and Mobile Communication, Digital Image Processing

Department: Computer Science

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	JULY	15L	Subject: Information and network security UNIT I: Introduction: Security Trends, The OSI Security Architecture, Security Attacks, Security Services, Security Mechanisms Classical Encryption Techniques: Symmetric Cipher Model, Substitution Techniques, Transposition Techniques, Steganography, Block Cipher Principles, The Data Encryption Standard, The Strength of DES, AES (round details not expected), Multiple Encryption and Triple DES, Block Cipher Modes of Operation, Stream Ciphers Public-Key Cryptography and RSA: Principles of Public-Key Cryptosystems, The RSA Algorithm
2.	JULY-AUGUST	15L	UNIT II: Key Management: Public-Key Cryptosystems, Key Management, Diffie-Hellman Key Exchange Message Authentication and Hash Functions: Authentication Requirements, Authentication Functions, Message Authentication Codes, Hash Functions, Security of Hash Functions and Macs, Secure Hash Algorithm, HMAC Digital Signatures and Authentication: Digital Signatures, Authentication Protocols, Digital Signature Standard Authentication Applications: Kerberos, X.509 Authentication, Public-Key Infrastructure
3.	SEP-OCT	15L	UNIT III: Electronic Mail Security: Pretty Good Privacy,

			<p>S/MIME</p> <p>IP Security: Overview, Architecture, Authentication Header, Encapsulating Security Payload, Combining Security Associations, Key Management</p> <p>Web Security: Web Security Considerations, Secure Socket Layer and Transport Layer Security, Secure Electronic Transaction</p> <p>Intrusion: Intruders, Intrusion Techniques, Intrusion Detection</p> <p>Malicious Software: Viruses and Related Threats, Virus Countermeasures, DDOS</p> <p>Firewalls: Firewall Design Principles, Types of Firewalls</p>
4.	JULY	15L	<p>SUBJECT-WEB SERVICES</p> <p>UNIT I:</p> <p>Web services basics :</p> <p>What Are Web Services? Types of Web Services Distributed computing infrastructure, overview of XML, SOAP, Building Web Services with JAX-WS, Registering and Discovering Web Services, Service Oriented Architecture, Web Services Development Life Cycle, Developing and consuming simple Web Services across platform</p>
5.	JULY- AUGUST	15L	<p>UNIT II:</p> <p>The REST Architectural style :</p> <p>Introducing HTTP, The core architectural elements of a RESTful system, Description and discovery of RESTful web services, Java tools and frameworks for building RESTful web services, JSON message format and tools and frameworks around JSON, Build RESTful web services with JAX-RS APIs, The Description and Discovery of RESTful Web Services, Design guidelines for building RESTful web services, Secure RESTful web services</p>
6.	SEP- OCT	15L	<p>UNIT III:</p> <p>Developing Service-Oriented Applications with WCF :</p> <p>What Is Windows Communication Foundation, Fundamental Windows Communication Foundation Concepts, Windows Communication Foundation Architecture, WCF and .NET Framework Client Profile, Basic WCF Programming, WCF Feature Details. Web Service</p>

			QoS
6.	JAN-FEB	15L	SEMESTER - VI SUBJECT: Wireless Sensor Networks and Mobile Communication UNIT I: Introduction: Introduction to Sensor Networks, unique constraints and challenges, Advantage of Sensor Networks, Applications of Sensor Networks, Mobile Adhoc NETWORKS (MANETs) and Wireless Sensor Networks, Enabling technologies for Wireless Sensor Networks. Sensor Node Hardware and Network Architecture: Single-node architecture, Hardware components & design constraints, Operating systems and execution environments, introduction to TinyOS and nesC. Network architecture, Optimization goals and figures of merit, Design principles for WSNs, Service interfaces of WSNs, Gateway concepts
7.	FEB-MAR	15L	UNIT II: Medium Access Control Protocols: Fundamentals of MAC Protocols, MAC Protocols for WSNs, Sensor-MAC Case Study. Routing Protocols: Data Dissemination and Gathering, Routing Challenges and Design Issues in Wireless Sensor Networks, Routing Strategies in Wireless Sensor Networks. Transport Control Protocols : Traditional Transport Control Protocols, Transport Protocol Design Issues, Examples of Existing Transport Control Protocols, Performance of Transport Control Protocols.
8.	MARCH-APR	15L	UNIT III: Introduction, Wireless Transmission and Medium Access Control: Applications, A short history of wireless communication. Wireless Transmission: Frequency for radio transmission, Signals, Antennas, Signal propagation, Multiplexing, Modulation, Spread spectrum, Cellular systems. Telecommunication, Satellite and Broadcast Systems: GSM: Mobile services, System architecture, Radio interface, Protocols,

			Localization And Calling, Handover, security, New data services; DECT: System architecture, Protocol architecture; ETRA, UMTS and IMT-2000, Satellite Systems: History, Applications, Basics: GEO, LEO, MEO; Routing, Localization, Handover.
9.	JAN-FEB	15L	<p>SUBJECT: Digital Image Processing</p> <p>UNIT I:</p> <p>Introduction to Image-processing System : Introduction, Image Sampling, Quantization, Resolution, Human Visual Systems, Elements of an Image-processing System, Applications of Digital Image Processing</p> <p>2D Signals and Systems : 2D signals, separable sequence, periodic sequence, 2D systems, classification of 2D systems, 2D Digital filter</p> <p>Convolution and Correlation : 2D Convolution through graphical method, Convolution through 2D Z—transform, 2D Convolution through matrix analysis, Circular Convolution, Applications of Circular Convolution, 2D Correlation</p> <p>Image Transforms: Need for transform, image transforms, Fourier transform, 2D Discrete Fourier Transform, Properties of 2D DFT, Importance of Phase, Walsh transform, Hadamard transform, Haar transform, Slant transform, Discrete Cosine transform, KL transform</p>
	FEB-MAR	15L	<p>UNIT II:</p> <p>Image Enhancement : Image Enhancement in spatial domain, Enhancement through Point operations, Histogram manipulation, Linear and nonlinear Gray Level Transformation, local or neighborhood operation, Median Filter, Spatial domain High pass filtering, Bit-plane slicing, Image Enhancement in frequency domain, Homomorphic filter, Zooming operation, Image Arithmetic</p> <p>Binary Image processing : Mathematical morphology, Structuring elements, Morphological image processing, Logical operations, Morphological operations, Dilation and Erosion, Distance Transform</p> <p>Colour Image processing : Colour images, Colour Model, Colour image quantization, Histogram of a</p>

			colour image
10,	MARCH- APR	15L	UNIT III: Image Segmentation: Image segmentation techniques, Region approach, Clustering techniques, Thresholding, Edge-based segmentation, Edge detection, Edge Linking, Hough Transform Image Compression: Need for image compression, Redundancy in images, Image-compression scheme, Fundamentals of Information Theory, Run-length coding, Shannon-Fano coding, Huffman Coding, Arithmetic Coding, Transform-based compression, Image-compression standard

Patil

Subject Teacher

(MS. TEJASHRI PATIL)

Mhatre

Head of the Department

(MS. ANITA MHATRE)

Principal

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PRINCIPAL

(DR. S. M. Dadasaheb Limaye)
ACS College, Kalamdoh,
Tal.- Panvel, Dist. - Raigad.



Name of the Faculty - Anil N. Mhatre

Class :- F.Y.BSC(CS)

Sub :- Programming with Python-I, Free and open source software, Programming with Python - II, Green Technologies

Department : COMPUTER SCIENCE

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	AUG-SEP	15L	<p>Subject: Programming with Python-I(SEM - I)</p> <p>Unit I:</p> <p>Reasons for Python as the learner's first programming language. Introduction to the IDLE interpreter (shell) and its documentation. Expression evaluation: similarities and differences compared to a calculator; expressions and operators of types int, float, boolean. Built-in function type. Operator precedence. Enumeration of simple and compound statements. The expression statement. The assert statement, whose operand is a boolean expression (values true or false). The assignment statement, dynamic binding of names to values, (type is associated with data and not with names); automatic and implicit declaration of variable names with the assignment statement; assigning the value None to a name. The del (delete) statement. Input/output with print and input functions. A statement list (semicolon-separated list of simple statements on a single line) as a single interpreter command. The import statement for already-defined functions and constants. The augmented assignment statement. The built-in help() function. Interactive and script modes of IDLE. running a script, restarting the shell. The compound statement def to define functions; the role of indentation for delimiting the body of a compound statement; calling a previously defined function. Compound data types str, tuple and list (enclosed in quotes, parentheses and brackets, respectively). Indexing individual elements within these types. Strings and tuples are immutable, lists are mutable. Built-in functions min, max, sum. Interactive solution of model problems, (e.g., finding the square root of a number or zero of a function); by repeatedly executing the body of a loop (where the body is a statement list).</p>
2.	SEP-OCT	15L	<p>Unit II:</p> <p>Advantages of functions, function parameters, formal parameters, actual parameters, global and local variables. The range function, the iterative for statement. The conditional</p>

			statements if, if-else, if-elif-else. The iterative statements while, while-else, for-else. The continue statement to skip over one iteration of a loop, the break statement to exit the loop. Nested compound statements. Dictionary: concept of key-value pairs, techniques to create, update and delete dictionary items. Problem-solving using compound types and statements.
3.	OCT-NOV	15L	Unit III: Anonymous functions. List comprehensions. Gentle introduction to object-oriented programming: using the built-in dir() function, enumerate the methods of strings, tuples, lists, dictionaries. Using these methods for problem-solving with compound types.
4.	AUG-SEP	15L	Subject: Free and open source software (SEM – I) UNIT I: Introduction: Open Source, Free Software, Free Software vs. Open Source software, Public Domain Software, FOSS does not mean no cost. History: BSD, The Free Software Foundation and the GNU Project. Methodologies Open Source History, Initiatives, Principle and methodologies. Philosophy : Software Freedom, Open Source Development Model Licenses and Patents: What Is A License, Important FOSS Licenses (Apache,BSD,GPL, LGPL), copyrights and copy lefts, Patents Economics of FOSS: Zero Marginal Cost. Income-generation opportunities, Problems with traditional commercial software, Internationalization 15L 7 Social Impact Open source vs. closed source, Open source government, Open source ethics. Social and Financial impacts of open source technology, Shared software, Shared source, Open Source in Government.
5.	SEP-OCT	15L	UNIT II: Case Studies Example Projects: Apache web server, GNU/Linux, Android, Mozilla (Firefox), Wikipedia, Drupal, wordpress, GCC, GDB, github, Open Office. Study: Understanding the developmental models, licensings, mode of funding,commercial/non-commercial use. Open Source Hardware, Open Source Design, Open source Teaching, Open source media. Collaboration, Community and Communication Contributing to Open Source Projects Introduction to github, interacting with the community on github, Communication and etiquette, testing open source code, reporting issues, contributing code. Introduction to wikipedia, contributing to Wikipedia Or contributing to any prominent open source project of student's choice. Starting and Maintaining own Open Source Project.
6.	OCT-NOV	15L	Unit III: Understanding Open Source Ecosystem

			Open Source Operating Systems: GNU/Linux, Android, Free BSD, Open Solaris. Open Source Hardware, Virtualization Technologies, Containerization Technologies: Docker, Development tools, IDEs, debuggers, Programming languages, LAMP, Open Source database technologies
SEMESTER - II			
7.	JAN-FEB	15L	<u>SUBJECT: Programming with Python – II (SEM-II)</u> <u>UNIT I:</u> Python File Input-Output: Opening and closing files, various types of file modes, reading and writing to files, manipulating directories. Iterables, iterators and their problemsolving applications. Exception handling: What is an exception, various keywords to handle exceptions such try, catch, except, else, finally, raise. Regular Expressions: Concept of regular expression, various types of regular expressions, using match function.
8.	FEB-MARCH	15L	<u>UNIT II:</u> GUI Programming in Python(usingTkinter/wxPython/Qt) What is GUI, Advantages of GUI, Introduction to GUI library. Layout management, events and bindings, fonts, colours, drawing on canvas (line, oval, rectangle, etc.) Widgets such as : frame, label, button, checkbutton, entry, listbox, message, radiobutton, text, spinbox etc
9.	MARCH-APRIL	15L	<u>UNIT III:</u> Database connectivity in Python: Installing mysql connector, accessing connector module module, using connect, cursor, execute & close functions, reading single & multiple results of query execution, executing different types of statements, executing transactions, understanding exceptions in database connectivity. Network connectivity: Socket module, creating server-client programs, sending email, reading from URL
10.	JAN-FEB	15L	<u>SUBJECT: Green Technologies</u> <u>UNIT I:</u> Green IT Overview: Introduction , Environmental Concerns and Sustainable Development, Environmental Impacts of IT, Green I , Holistic Approach to Greening IT, Greening IT, Applying IT for Enhancing Environmental Sustainability, Green IT Standards and Eco-Labeling of IT , Enterprise Green IT Strategy, Green Washing, Green IT: Burden or Opportunity? Green Devices and Hardware: Introduction , Life Cycle of a Device or Hardware, Reuse, Recycle and Dispose

			<p>Green Software: Introduction, Processor Power States, Energy-Saving Software Techniques, Evaluating and Measuring Software Impact to Platform Power</p> <p>Sustainable Software Development: Introduction, Current Practices, Sustainable Software, Software Sustainability Attributes, Software Sustainability Metrics, Sustainable Software Methodology, Defining Actions</p>
11.	FEB-MARCH	15L	<p>UNIT II:</p> <p>Green Data Centres: Data Centres and Associated Energy Challenges, Data Centre IT Infrastructure, Data Centre Facility Infrastructure: Implications for Energy Efficiency, IT Infrastructure Management, Green Data Centre Metrics</p> <p>Green Data Storage: Introduction, Storage Media Power Characteristics, Energy Management Techniques for Hard Disks, System-Level Energy Management</p> <p>Green Networks and Communications: Introduction, Objectives of Green Network Protocols, Green Network Protocols and Standards</p> <p>Enterprise Green IT Strategy: Introduction, Approaching Green IT Strategies, Business Drivers of Green IT Strategy, Business Dimensions for Green IT Transformation, Organizational Considerations in a Green IT Strategy, Steps in Developing a Green IT Strategy, Metrics and Measurements in Green Strategies.</p>
12.	MARCH-APRIL	15L	<p>UNIT III:</p> <p>Sustainable Information Systems and Green Metrics: Introduction, Multilevel Sustainable Information, Sustainability Hierarchy Models, Product Level Information, Individual Level Information, Functional Level Information, Organizational Level Information, Measuring the Maturity of Sustainable ICT</p> <p>Enterprise Green IT Readiness: Introduction, Readiness and Capability, Development of the G-Readiness Framework, Measuring an Organization's G-Readiness</p> <p>Sustainable IT Services: Creating a Framework for Service Innovation: Introduction, Factors Driving the Development of Sustainable IT, Sustainable IT Services (SITS), SITS Strategic Framework</p> <p>Green Enterprises and the Role of IT: Introduction, Organizational and Enterprise Greening, Information Systems in Greening Enterprises, Greening the Enterprise: IT Usage and Hardware, Inter-organizational Enterprise Activities and Green Issues</p>

Principal

HOD

Teacher

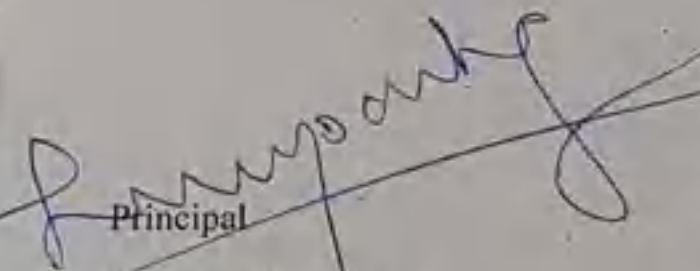
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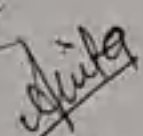
Mrs. Anita Mhatre

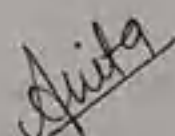
Mrs. Anita Mhatre

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	AUG-SEP	15L	Subject: Artificial Intelligence (SEM - V) Unit I: Intelligent Agents: Agents and Environments, Nature of Environments, Structure of Agents. Problem Solving by searching: Problem-Solving Agents, Example Problems, Searching for Solutions, Uninformed Search Strategies, Informed (Heuristic) Search Strategies, Heuristic Functions.
2.	SEP-OCT	15L	Unit II: Learning from Examples: Forms of Learning, Supervised Learning, Learning Decision Trees, Evaluating and Choosing the Best Hypothesis, Theory of Learning, Regression and Classification with Linear Models, Artificial Neural Networks, Nonparametric Models, Support Vector Machines, Ensemble Learning, Practical Machine Learning.
3.	OCT-NOV	15L	Unit III: Learning probabilistic models: Statistical Learning, Learning with Complete Data, Learning with Hidden Variables: The EM Algorithm. Reinforcement learning: Passive Reinforcement Learning, Active Reinforcement Learning, Generalization in Reinforcement Learning, Policy Search, Applications of Reinforcement Learning.
SEMESTER - VI			
4.	JAN-FEB	15L	Subject: Information Retrieval (SEM - VI) UNIT I: Introduction to Information Retrieval: Introduction, History of IR, Components of IR, and Issues related to IR, Boolean retrieval, Dictionaries and tolerant retrieval
5.	FEB-MARCH	15L	UNIT II: Link Analysis and Specialized Search: Link Analysis, hubs and authorities, Page Rank and HITS algorithms, Similarity.

			Hadoop & Map Reduce, Evaluation, Personalized search, Collaborative filtering and content-based recommendation of documents and products, handling "invisible" Web, Snippet generation, Summarization, Question Answering, Cross-Lingual Retrieval.
6.	MARCH- APRIL	15L	Unit III: Web Search Engine: Web search overview, web structure, the user, paid placement, search engine optimization/spam, Web size measurement, search engine optimization/spam, Web Search Architectures. XML retrieval: Basic XML concepts, Challenges in XML retrieval, A vector space model for XML retrieval, Evaluation of XML retrieval, Text-centric versus data-centric XML retrieval.


Principal
Dr.S.C.Lahupachang


HOD
Mrs.Anita Mhatre


Teacher
Mrs.Anita Mhatre

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SES's
Shikshan Mahurshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year -2020-21

Name of the Faculty : - Anita N. Mhatre

Class :- S.Y.BSC(CS)

Sub :- Core JAVA, Skill Enhancement: Web Programming, Advanced JAVA, Computer Networks

Department :- COMPUTER SCIENCE

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III			
1.	AUG-SEP	15L	<p><u>Subject: Core JAVA (SEM - III)</u></p> <p><u>Unit I:</u></p> <p>The Java Language: Features of Java, Java programming format, Java Tokens, Java Statements, Java Data Types, Typecasting, Arrays</p> <p>OOPS: Introduction, Class, Object, Static Keywords, Constructors, this Key Word, Inheritance, super Key Word, Polymorphism (overloading and overriding), Abstraction, Encapsulation, Abstract Classes, Interfaces</p> <p>String Manipulations: String, String Buffer, String Tokenizer</p> <p>Packages: Introduction to predefined packages (java.lang, java.util, java.io, java.sql, java.swing), User Defined Packages, Access specifiers</p>
2.	SEP-OCT	15L	<p><u>Unit II:</u></p> <p>Exception Handling: Introduction, Pre-Defined Exceptions, Try-Catch-Finally, Throws, throw, User Defined Exception examples</p> <p>Multithreading: Thread Creations, Thread Life Cycle, Life Cycle Methods, Synchronization, Wait(), notify () notify all() methods</p> <p>I/O Streams: Introduction, Byte-oriented streams, Character- oriented streams, File, Random access File, Serialization</p> <p>Networking: Introduction, Socket, Server socket, Client -Server Communication.</p>
3.	OCT-NOV	15L	<p><u>Unit III:</u></p> <p>Wrapper Classes: Introduction, Byte, Short, Integer, Long, Float, Double, Character, Boolean classes</p> <p>Collection Framework: Introduction, util Package interfaces, List, Set, Map, List interface & its classes, Set interface & its classes, Map interface & its classes</p> <p>Inner Classes: Introduction, Member inner class,</p>

			<p>Static inner class, Local inner class, Anonymous inner class</p> <p>AWT: Introduction, Components, Event-Delegation-Model, Listeners, Layouts, Individual components Label, Button, CheckBox, Radio Button, Choice, List, Menu, Text Field, Text Area.</p>
4.	AUG-SEP	15L	<p><u>Subject: Skill Enhancement: Web Programming (SEM – III)</u></p> <p><u>UNIT I:</u> HTML5: Fundamental Elements of HTML, Formatting Text in HTML, Organizing Text in HTML, Links and URLs in HTML, Tables in HTML, Images on a Web Page, Image Formats, Image Maps, Colors, FORMs in HTML, Interactive Elements, Working with Multimedia - Audio and Video File Formats, HTML elements for inserting Audio / Video on a web page CSS: Understanding the Syntax of CSS, CSS Selectors, Inserting CSS in an HTML Document, CSS properties to work with background of a Page, CSS properties to work with Fonts and Text Styles, CSS properties for positioning an element.</p>
5.	SEP-OCT	15L	<p><u>UNIT II:</u> JavaScript: Using JavaScript in an HTML Document, Programming Fundamentals of JavaScript – Variables, Operators, Control Flow Statements, Popup Boxes, Functions – Defining and Invoking a Function, Defining Function arguments, Defining a Return Statement, Calling Functions with Timer, JavaScript Objects - String, RegExp, Math, Date, Browser Objects - Window, Navigator, History, Location, Document, Cookies, Document Object Model, Form Validation using JavaScript XML: Comparing XML with HTML, Advantages and Disadvantages of XML, 15L Structure of an XML Document, XML Entity References, DTD, XSLT: XSLT Elements and Attributes - xsl:template, xsl:apply-templates, xsl:import, xsl:call-template, xsl:include, xsl:element, xsl:attribute, xsl:attribute-set, xsl:value-of.</p>
6.	OCT-NOV	15L	<p><u>Unit III:</u> AJAX: AJAX Web Application Model, How AJAX Works, XMLHttpRequest Object – Properties and Methods, Handling asynchronous requests using AJAX PHP: Variables and Operators, Program Flow, Arrays, Working with Files and Directories, Working with Databases, Working with Cookies, Sessions and Headers Introduction to jQuery: Fundamentals, Selectors, methods to access HTML attributes, methods for traversing, manipulators, events, effects.</p>

SEMESTER - IV			
7.	JAN-FEB	15L	<p>SUBJECT: Advanced JAVA (SEM-IV)</p> <p>UNIT I: Swing: Need for swing components, Difference between AWT and swing, Components hierarchy, Panes, Swing components: JLabel, JTextField and JPasswordField, JTextArea, JButton, JCheckBox, JRadioButton, JComboBox and JList JDBC: Introduction, JDBC Architecture, Types of Drivers, Statement, ResultSet, Read Only ResultSet, Updatable ResultSet, Forward Only ResultSet, Scrollable ResultSet, PreparedStatement, Connection Modes, SavePoint, Batch Updates, CallableStatement, BLOB & CLOB</p>
8.	FEB-MARCH	15L	<p>UNIT II: Servlets: Introduction, Web application Architecture, Http Protocol & Http Methods, Web Server & Web Container, Servlet Interface, GenericServlet, HttpServlet, Servlet Life Cycle, ServletConfig, ServletContext, Servlet Communication, Session Tracking Mechanisms JSP: Introduction, JSP LifeCycle, JSP Implicit Objects & Scopes, JSP Directives, JSP Scripting Elements, JSP Actions; Standard actions and customized actions,</p>
9.	MARCH-APRIL	15L	<p>UNIT III: Java Beans: Introduction, JavaBeans Properties, Examples Struts 2: Basic MVC Architecture, Struts 2 framework features, Struts 2 MVC pattern, Request life cycle, Examples, Configuration Files, Actions, Interceptors, Results & Result Types, Value Stack/OGNL JSON: Overview, Syntax, DataTypes, Objects, Schema, Comparison with XML, JSON with Java</p>
10.	JAN-FEB	15L	<p>SUBJECT: Computer Networks</p> <p>UNIT I: Introduction Network Models: Introduction to data communication, Components, Data Representation, Data Flow, Networks, Network Criteria, Physical Structures, Network types, Local Area Network, Wide Area Network, Switching, The Internet, Accessing the Internet, standards and administration Internet Standards, Network Models, Protocol layering, Scenarios, Principles of Protocol Layering, Logical Connections, TCP/IP Protocol Suite, Layered Architecture, Layers in the TCP/IP Protocol Suite, Encapsulation and Decapsulation, Addressing, Multiplexing and Demultiplexing, Detailed introduction to Physical Layer, Detailed introduction to Data-Link Layer, Detailed introduction to Network Layer, Detailed introduction to Transport Layer, Detailed introduction to Application Layer, Data and Signals, Analog and Digital Data, Analog and Digital Signals, Sine Wave Phase, Wavelength, Time and Frequency Domains, Composite</p>

			Signals, Bandwidth, Digital Signal, Bit Rate, Bit Length, Transmission of Digital Signals, Transmission Impairments, Attenuation, Distortion, Noise, Data Rate Limits, Performance, Bandwidth, Throughput, Latency (Delay)
11.	FEB-MARCH	15L	UNIT II: Introduction to Physical Layer and Data-Link Layer: Digital Transmission digital-to-digital conversion, Line Coding, Line Coding Schemes, analog-to-digital conversion, Pulse Code Modulation (PCM), Transmission Modes, Parallel Transmission, Serial Transmission, Analog Transmission, digital-to-analog Conversion, Aspects of Digital-to-Analog Conversion, Amplitude Shift Keying, Frequency Shift Keying, Phase Shift Keying, analog-to-analog Conversion, Amplitude Modulation (AM), Frequency Modulation (FM), Phase Modulation (PM), Multiplexing, Frequency-Division Multiplexing, Wavelength-Division Multiplexing, Time-Division Multiplexing, Transmission Media, Guided Media, Twisted-Pair Cable, Coaxial Cable, Fiber-Optic Cable, Switching, Three Methods of Switching, Circuit Switched Networks, Packet Switching, Introduction to Data-Link Layer, Nodes and Links, Services, Two Sub-layers, Three Types of addresses, Address Resolution Protocol (ARP), Error Detection and Correction, introduction, Types of Errors, Redundancy, Detection versus Correction,
12.	MARCH-APRIL	15L	UNIT III: Network layer, Transport Layer: Network layer, Transport Layer Media Access Control (MAC), random access, CSMA, CSMA/CD, CSMA/CA, controlled access, Reservation, Polling, Token Passing, channelization, FDMA, TDMA, CDMA, Connecting Devices and Virtual LANs, connecting devices, Hubs, Link-Layer Switches, Routers, Introduction to Network Layer, network layer services, Packetizing, Routing and Forwarding, Other Services, IPv4 addresses, Address Space, Classful Addressing, Unicast Routing, General Idea, Least-Cost Routing, Routing Algorithms, Distance-Vector Routing, Link-State Routing, Path-Vector Routing, Introduction to Transport Layer, Transport-Layer Services, Connectionless and Connection-Oriented Protocols, Transport-Layer Protocols, Service, Port Numbers, User Datagram Protocol, User Datagram, UDP Services, UDP Applications, Transmission Control Protocol, TCP Services, TCP Features, Segment.

Principal

Dr.S.C.Lahupachang

HOD

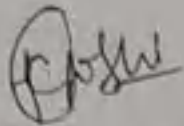
Mrs.Anita Mhatre

Teacher

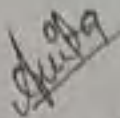
Mrs.Anita Mhatre

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	AUG- SEPT	15L	<p>Subject: Computer Organization and Design</p> <p>Unit I: Computer Abstractions and Technology: Basic structure and operation of a computer, functional units and their interaction. Representation of numbers and characters. Logic circuits and functions: Combinational circuits and functions: Basic logic gates and functions, truth tables; logic circuits and functions. Minimization with Karnaugh maps. Synthesis of logic functions with and-or-not gates, nand gates, nor gates. Fan-in and fan-out requirements; tristate buffers. Half adder, full adder, ripple carry adder.</p>
2.	SEPT- OCT		<p>Unit I: (Flip flops) Gated S-R and D latches, edge-triggered D latch. Shift registers and registers. Decoders, multiplexers. Sequential circuits and functions: State diagram and state table; finite state machines and their synthesis.</p> <p>Unit II: Instruction set architectures: Memory organization, addressing and operations: word size, big-endian and little-endian arrangements. Instructions, sequencing, Instruction sets for RISC and CISC (examples Altera NIOS II and Freescale ColdFire). Operand addressing modes; pointers; indexing for arrays. Machine language, assembly language, assembler directives. Function calls, processor runtime stack, stack frame. Types of machine instructions: arithmetic, logic, shift, etc. Instruction sets, RISC and CISC examples.</p>
3.	OCT- NOV		<p>Unit III: Basic Processor Unit: Main components of a processor: registers and register files, ALU, control unit, instruction fetch unit, interfaces to instruction and data memories, Datapath, instruction fetch and execute; executing arithmetic/logic, memory access and branch instructions; hardwired and microprogrammed control for RISC and CISC.</p> <p>Basic I/O:</p>

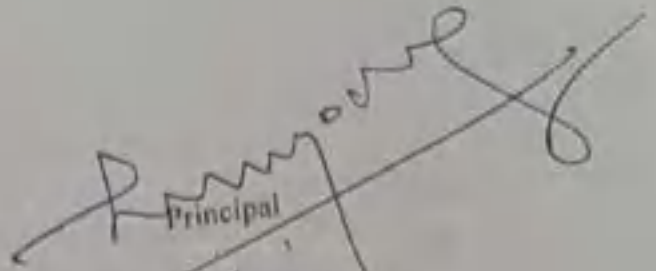
			Accessing I/O devices, data transfers between processor and I/O devices. Interrupts and exceptions: interrupt requests and processing.
	JAN-FEB	15L	<p>Subject: Linux (SEM - II)</p> <p>Unit I: Introduction History of Linux, Philosophy, Community, Terminology, Distributions. Linux kernel vs distribution. Why learn Linux? Importance of Linux in software ecosystem: web servers, supercomputers, mobile, servers. Installation Installation methods, Hands on Installation using CD/DVD or USB drive. Linux Structure Linux Architecture, Filesystem basics, The boot process, init scripts, runlevels, shutdown process, Very basic introductions to Linux processes, Packaging methods: rpm/deb, Graphical Vs Command line.</p>
	FEB		<p>Unit II: Graphical Desktop- Session Management, Basic Desktop Operations, Network Management, Installing and Updating Software, Text editors: gedit, vi, vim, emacs, Graphics editors, Multimedia applications. Command Line Command line mode options, Shells, Basic Commands, General Purpose Utilities, Installing Software, User management, Environment variables, Command aliases. Linux Documentation man pages, GNU info, help command, More documentation sources File Operations Filesystem, Filesystem architecture, File types, File attributes, Working with files, Backup, compression</p>
	MARCH		<p>Unit III: Security Understanding Linux Security; Uses of root, sudo command, working with passwords, Bypassing user authentication, Understanding ssh Networking Basic introduction to Networking, Network protocols: http, ftp etc., IP address, DNS, Browsers, Transferring files. ssh, telnet, ping, traceroute, route, hostname, networking GUI. Basic Shell Scripting Features and capabilities, Syntax, Constructs, Modifying files, Sed, awk command, File manipulation utilities, Dealing with large files and Text, String manipulation, Boolean expressions, File tests, Case, Debugging, Regular expressions</p>



Subject Teacher



Head of the Department



Principal

PRINCIPAL

SES'S B. M. Limaye
ACS College, Kalamnoli.
Tal. - Panvel, Dist. - Raigad.

Name of the Faculty :- Kranti Gajanan Joshi

Class :- S.Y.C.S.

Sub :- Theory of computation, DBMS, Physical Computing and IoT Programming, NET Technology, Software Engineering

Department :

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER -III			
1.	AUG-SEP	15L	Subject: Theory of Computation(Sem - III) UNIT 1 Automata Theory: Defining Automaton, Finite Automaton, Transitions and Its properties, Acceptability by Finite Automaton, Nondeterministic Finite State Machines, DFA and NDFA equivalence, Mealy and Moore Machines, Minimizing Automata. Formal Languages: Defining Grammar, Derivations, Languages generated by Grammar, Chomsky Classification of Grammar and Languages, Recursive Enumerable Sets, Operations on Languages, Languages and Automata
2.	SEP-OCT		UNIT 2 Regular Sets and Regular Grammar: Regular Grammar, Regular Expressions, Finite automata and Regular Expressions, Pumping Lemma and its Applications, Closure Properties, Regular Sets and Regular Grammar UNIT 2 Context Free Languages: Context-free Languages, Derivation Tree, Ambiguity of Grammar, CFG simplification, Normal Forms, Pumping Lemma for CFG Pushdown Automata: Definitions, Acceptance by PDA, PDA and CFG
3.	OCT-NOV		UNIT 3 Turing Machines; Turing Machine Definition, Representations, Acceptability by Turing Machines, Designing and Description of Turing Machines, Turing Machine Construction, Variants of Turing Machine, Undecidability: The Church-Turing thesis, Universal Turing

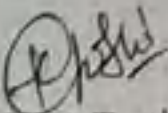
			Machine, Halting Problem, Introduction to Unsolvable Problems
			<u>Subject: Database Management Systems(Sem - III)</u>
			<u>Unit I:</u>
AUG-SEP	15L		<p>Stored Procedures: Types and benefits of stored procedures, creating stored procedures, executing stored procedures, altering stored procedures, viewing stored procedures.</p> <p>Triggers: Concept of triggers, Implementing triggers – creating triggers, Insert, delete, and update triggers, nested triggers, viewing, deleting and modifying triggers, and enforcing data integrity through triggers.</p> <p>Sequences: creating sequences, referencing, altering and dropping a sequence.</p> <p>File Organization and Indexing: Cluster, Primary and secondary indexing, Index data structure: hash and Tree based indexing, Comparison of file organization: cost model, Heap files, sorted files, clustered files. Creating, dropping and maintaining indexes.</p>
SEP-OCT			<p>UNIT II</p> <p>Fundamentals of PL/SQL: Defining variables and constants, PL/SQL expressions and comparisons: Logical Operators, Boolean Expressions, CASE Expressions Handling, Null Values in Comparisons and Conditional Statements, PL/SQL Datatypes: Number Types, Character Types, Boolean Type, Datetime and Interval Types.</p> <p>Overview of PL/SQL Control Structures: Conditional Control: IF and CASE Statements, IF-THEN Statement, IF-THEN-ELSE Statement, IFTHEN-ELSIF Statement, CASE Statement, Iterative Control: LOOP and EXIT Statements, WHILE-LOOP, FOR-LOOP, Sequential Control: GOTO and NULL Statements</p>


OCT- NOV		<p><u>Unit III:</u></p> <p>Transaction Management: ACID Properties, Serializability, Two-phase Commit Protocol, Concurrency Control, Lock Management, Lost Update Problem, Inconsistent Read Problem, Read-Write Locks, Deadlocks Handling, Two Phase Locking protocol, DCL Statements: Defining a transaction, Making Changes Permanent with COMMIT, Undoing Changes with ROLLBACK, Undoing Partial Changes with SAVEPOINT and ROLLBACK, Crash Recovery: ARIES algorithm, The log based recovery, recovery related structures like transaction and dirty page table, Write-ahead log protocol, check points, recovery from a system crash, Redo and Undo phases.</p>
AUG- SEPT	15L	<p><u>Subject: Physical Computing and IoT Programming (Sem - III)</u></p> <p><u>Unit I:</u></p> <p>SoC and Raspberry Pi System on Chip: What is System on chip? Structure of System on Chip, SoC products: FPGA, GPU, APU, Compute Units, ARM 8 Architecture: SoC on ARM 8, ARM 8 Architecture Introduction Introduction to Raspberry Pi: Introduction to Raspberry Pi, Raspberry Pi Hardware, Preparing your raspberry Pi. Raspberry Pi Boot: Learn how this small SoC boots without BIOS. Configuring boot sequences and hardware.</p>
SEPT- OCT		<p><u>Unit II:</u></p> <p>Programming Raspberry Pi Raspberry Pi and Linux: About Raspbian, Linux Commands, Configuring Raspberry Pi with Linux Commands Programing interfaces: Introduction to Node.js, Python Raspberry Pi Interfaces: UART, GPIO, I2C, SPI Useful Implementations: Cross Compilation, Pulse Width Modulation, SPI for Camera.</p>

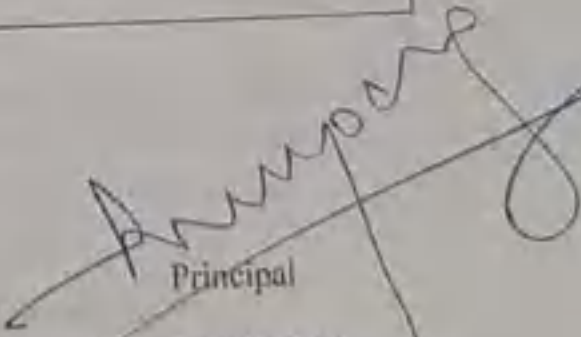
			Unit III: Introduction to IoT, What is IoT? IoT examples, Simple IoT LED Program, IoT and Protocols IoT Security: HTTP, UPnp, CoAP, MQTT, XMPP IoT Service as a Platform: Clayster, Thingier.io, SenseIoT, carriots and Node RED. IoT Security and Interoperability: Risks, Modes of Attacks, Tools for Security and Interoperability
			SEMESTER - IV
			Subject: .Net Technologies (Sem - IV) UNIT I The .NET Framework; .NET Languages, Common Language Runtime, .NET Class Library C# Language Basics: Comments, Variables and Data Types, Variable Operations, Object-Based Manipulation, Conditional Logic, Loops, Methods, Classes, Value Types and Reference Types, Namespaces and Assemblies, Inheritance, Static Members, Casting Objects, Partial Classes ASP.NET: Creating Websites, Anatomy of a Web Form - Page Directive, Doctype, Writing Code - Code-Behind Class, Adding Event Handlers, Anatomy of an ASP.NET Application - ASP.NET File Types, ASP.NET Web Folders, HTML Server Controls - View State, HTML Control Classes, HTML Control Events, HtmlControl Base Class, HtmlContainerControl Class, HtmlInputControl Class, Page Class, global.asax File, web.config File
			UNIT 2 Web Controls: Web Control Classes, WebControl Base Class, List Controls, Table Controls, Web Control Events and AutoPostBack, Page Life Cycle State Management: ViewState, Cross-Page Posting, Query String, Cookies, Session State, Configuring Session State, Application State Validation: Validation Controls, Server-Side Validation, Client-Side Validation, HTML5 Validation, Manual Validation, Validation with Regular Expressions Rich Controls: Calendar Control, AdRotator Control, MultiView Control Themes and Master Pages: How Themes Work, Applying a Simple Theme,
OCT-NOV			
JAN-FEB	15L		
FEB-MARCH			

MARCH- APRIL		<p>UNIT 3 ADO.NET: Data Provider Model, Direct Data Access - Creating a Connection, Select Command, DataReader, Disconnected Data Access Data Binding: Introduction, Single-Value Data Binding, Repeated-Value Data Binding, Data Source Controls - SqlDataSource Data Controls: GridView, DetailsView, FormView Working with XML: XML Classes - XMLTextWriter, XMLTextReader Caching: When to Use Caching, Output Caching, Data Caching LINQ: Understanding LINQ, LINQ Basics. ASP.NET AJAX: ScriptManager, Partial Refreshes, Progress Notification, Timed Refreshes</p>
JAN-FEB	SYCS	<p><u>Subject: Software Engineering (Sem - IV)</u></p> <p><u>Unit I:</u></p> <p>Introduction: The Nature of Software, Software Engineering, The Software Process, Generic Process Model, The Waterfall Model, Incremental Process Models, Evolutionary Process Models, Concurrent Models, Component-Based Development, The Unified Process Phases, Agile Development- Agility, Agile Process, Extreme Programming</p> <p>Requirement Analysis and System Modeling: Requirements Engineering, Eliciting Requirements, SRS Validation, Components of SRS, Characteristics of SRS , Object-oriented design using the UML - Class diagram, Object diagram, Use case diagram, Sequence diagram, Collaboration diagram, State chart diagram, Activity diagram, Component diagram, Deployment diagram</p>
FEB- MARCH		<p><u>Unit II:</u></p> <p>System Design: System/Software Design, Architectural Design, Low-Level Design Coupling and Cohesion, Functional-Oriented Versus The Object-Oriented Approach, Design Specifications, Verification for Design, Monitoring and Control for Design</p>

		<p>Software Measurement and Metrics: Product Metrics – Measures, Metrics, and Indicators, Function-Based Metrics, Metrics for Object-Oriented Design, Operation-Oriented Metrics, User Interface Design Metrics, Metrics for Source Code, Halstead Metrics Applied to Testing, Metrics for Maintenance, Cyclomatic Complexity, Software Measurement - Size-Oriented, Function-Oriented Metrics, Metrics for Software Quality</p> <p>Software Project Management: Estimation in Project Planning Process – Software Scope And Feasibility, Resource Estimation, Empirical Estimation Models – COCOMO II, Estimation for Agile Development, The Make/Buy Decision, Project Scheduling - Basic Principles, Relationship Between People and Effort, Effort Distribution, Time-Line Charts</p>
	MARCH- APRIL	<p><u>Unit III:</u></p> <p>Risk Management - Software Risks, Risk Identification, Risk Projection and Risk Refinement, RMMM Plan</p> <p>Software Quality Assurance: Elements of SQA, SQA Tasks, Goals, and Metrics, Formal Approaches to SQA, Six Sigma, Software Reliability, The ISO 9000 Quality Standards, Capability Maturity Model</p> <p>Software Testing : Verification and Validation, Introduction to Testing, Testing Principles, Testing Objectives, Test Oracles, Levels of Testing, White-Box Testing/Structural Testing, Functional/Black-Box Testing, Test Plan, Test-Case Design</p>


Subject Teacher


Head of the Department


Principal

PRINCIPAL
SES'S S. M. Dadarshab Limaye
ACS College, Kalambari
Tal.- Panvel, Dist. - Raigad.

Name of the Faculty : - Kranti Gajanan Joshi

Class :- T.Y.C.S.

Sub :- Software Testing & QA, Game Programming, Cyber Forensic, Ethical Hacking

Department :

Sr. No.	Month	Availa-ble Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	AUG-SEPT	15L	<p><u>Subject: Software Testing and Quality Assurance (Sem - V)</u></p> <p><u>Unit I:</u></p> <p>Software Testing and Introduction to quality : Introduction, Nature of errors, an example for Testing, Definition of Quality , QA, QC, QM and SQA . Software Development Life Cycle, Software Quality Factors</p> <p>Verification and Validation : Definition of V & V , Different types of V & V Mechanisms, Concepts of Software Reviews, Inspection and Walkthrough</p> <p>Software Testing Techniques : Testing Fundamentals, Test Case Design, White Box Testing and its types, Black Box Testing and its types</p>
2.	SEPT-OCT	15L	<p><u>Unit II:</u></p> <p>Software Testing Strategies : Strategic Approach to Software Testing, Unit Testing, Integration Testing, Validation Testing, System Testing</p> <p>Software Metrics : Concept and Developing Metrics, Different types of Metrics, Complexity metrics</p> <p>Defect Management: Definition of Defects, Defect Management Process, Defect Reporting, Metrics Related to Defects, Using Defects for Process Improvement.</p>
3.	OCT-NOV		<p><u>Unit III:</u></p> <p>Software Quality Assurance : Quality Concepts, Quality Movement, Background Issues, SQA activities, Software Reviews, Formal Technical Reviews, Formal approaches to SQA, Statistical Quality Assurance, Software Reliability, The ISO 9000 Quality Standards, , SQA Plan , Six sigma, Informal Reviews</p>

			<p>Quality Improvement : Introduction, Pareto Diagrams, Cause-effect Diagrams, Scatter Diagrams, Run charts</p> <p>Quality Costs : Defining Quality Costs, Types of Quality Costs, Quality Cost</p> <p>Measurement, Utilizing Quality Costs for Decision-Making</p>
AUG-SEPT	TYCS		<p><u>Subject: Game Programming(Sem - V)</u></p> <p><u>Unit I:</u></p> <p>Mathematics for Computer Graphics, DirectX Kickstart:</p> <p>Cartesian Coordinate system: The Cartesian XY-plane, Function Graphs, Geometric Shapes, Polygonal Shapes, Areas of Shapes, Theorem of Pythagoras in 2D, Coordinates, Theorem of Pythagoras in 3D, 3D Polygons, Euler's Rule</p> <p>Vectors: Vector Manipulation, multiplying a Vector by a Scalar, Vector Addition and Subtraction, Position Vectors, Unit Vectors, Cartesian Vectors, Vector Multiplication, Scalar Product, Example of the Dot Product, The Dot Product in Lighting Calculations, The Dot Product in Back-Face Detection, The</p> <p>Vector Product, The Right-Hand Rule, deriving a Unit Normal Vector for a Triangle Areas, Calculating 2D Areas</p> <p>Transformations: 2D Transformations, Matrices, Homogeneous Coordinates, 3D Transformations, Change of Axes, Direction Cosines, rotating a Point about an Arbitrary Axis, Transforming Vectors, Determinants, Perspective Projection, Interpolation</p> <p>DirectX: Understanding GPU and GPU architectures. How they are different from CPU Architectures? Understanding how to solve by GPU?</p>

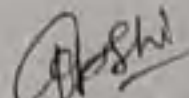
SEPT. OCT	15L	<p><u>Unit II:</u></p> <p>DirectX Pipeline and Programming: Introduction To DirectX 11- COM, Textures and Resources Formats, The swap chain and Page flipping, Depth Buffering, Texture Resource Views, Multisampling Theory and MS in Direct3D, Feature Levels. Direct3D 11 Rendering Pipeline: Overview, Input Assembler Stage (IA), Vertex Shader Stage (VS), The Tessellation Stage (TS), Geometry Shader Stage (GS), Pixel Shader Stage (PS), Output merger Stage (OM) Understanding Meshes or Objects, Texturing, Lighting, Blending. Interpolation and Character Animation: Trigonometry: The Trigonometric Ratios, Inverse Trigonometric Ratios, Trigonometric Relationships, The Sine Rule, The Cosine Rule, Compound Angles, Perimeter Relationships Interpolation: Linear Interpolant, Non-Linear Interpolation, Trigonometric Interpolation, Cubic Interpolation, Interpolating Vectors, Interpolating Quaternions Curves: Circle, Bezier, B-Splines Analytic Geometry: Review of Geometry, 2D Analytic Geometry, Intersection Points, Point in Triangle, and Intersection of circle with straight line</p>
OCT- NOV	15L	<p><u>Unit III:</u></p> <p>Introduction to Rendering Engines: Understanding the current market Rendering Engines. Understanding AR, VR and MR. Depth Mappers, Mobile Phones, Smart Glasses, HMD's</p> <p>Unity Engine: Multi-platform publishing, VR + AR: Introduction and working in Unity, 2D, Graphics, Physics, Scripting, Animation, Timeline, Multiplayer and Networking, UI, Navigation and Pathfinding, XR, Publishing.</p> <p>Scripting: Scripting Overview, Scripting Tools and Event Overview</p> <p>XR: VR, AR, MR, Conceptual Differences. SDK, Devices</p>
SEMESTER - VI		
JAN-FEB	15L	<p><u>Subject: Cyber Forensics (Sem - VI)</u></p> <p><u>Unit I:</u></p>

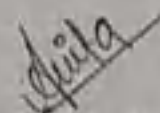
			<p>Computer Forensics : Introduction to Computer Forensics and standard procedure, Incident Verification and System Identification ,Recovery of Erased and damaged data, Disk Imaging and Preservation, Data Encryption and Compression, Automated Search Techniques, Forensics Software</p> <p>Network Forensic : Introduction to Network Forensics and tracking network traffic, Reviewing Network Logs, Network Forensics Tools, Performing Live Acquisitions, Order of Volatility, Standard Procedure</p> <p>Cell Phone and Mobile Device Forensics: Overview, Acquisition Procedures for Cell Phones and Mobile Devices</p>
	FEB- MARCH	15L	<p><u>Unit II:</u></p> <p>Internet Forensic : Introduction to Internet Forensics, World Wide Web Threats, Hacking and Illegal access, Obscene and Incident transmission, Domain Name Ownership Investigation, Reconstructing past internet activities and events</p> <p>E-mail Forensics : e-mail analysis, e-mail headers and spoofing, Laws against e-mail Crime, Messenger Forensics: Yahoo Messenger</p> <p>Social Media Forensics: Social Media Investigations</p> <p>Browser Forensics: Cookie Storage and Analysis, Analyzing Cache and temporary internet files, Web browsing activity reconstruction</p>
	MARCH- APRIL	15L	<p><u>Unit III:</u></p> <p>Investigation, Evidence presentation and Legal aspects of Digital Forensics: Authorization to collect the evidence , Acquisition of Evidence, Authentication of the evidence, Analysis of the evidence, Reporting on the findings, Testimony Introduction to Legal aspects of Digital Forensics: Laws & regulations, Information Technology Act, Giving Evidence in court, Case Study – Cyber Crime cases, Case Study – Cyber Crime cases</p>

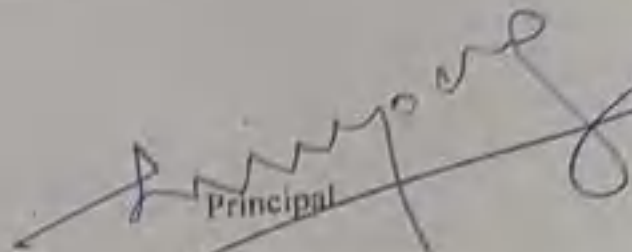
	JAN-FEB 15L	<p><u>Subject: Ethical Hacking (Sem - VI)</u></p> <p><u>Unit I:</u></p> <p>Information Security : Attacks and Vulnerabilities</p> <p>Introduction to Information security : Asset, Access Control, CIA,</p> <p>Authentication, Authorization, Risk, Threat, Vulnerability, Attack, Attack</p> <p>Surface, Malware, Security-Functionality-Ease of Use Triangle</p> <p>Types of malware : Worms, viruses, Trojans, Spyware, Rootkits</p> <p>Types of vulnerabilities : OWASP Top 10 : cross-site scripting (XSS), cross site request forgery (CSRF/XSRF), SQL injection, input parameter manipulation, broken authentication, sensitive information disclosure, XML External Entities, Broken access control, Security Misconfiguration, Using components with known vulnerabilities, Insufficient Logging and monitoring, OWASP Mobile Top 10, CVE Database</p> <p>Types of attacks and their common prevention mechanisms : Keystroke Logging, Denial of Service (DoS/DDoS), Waterhole attack, brute force, phishing and fake WAP, Eavesdropping, Man-in-the-middle, Session Hijacking, Clickjacking, Cookie Theft, URL Obfuscation, buffer overflow, DNS poisoning, ARP poisoning, Identity Theft, IoT Attacks, BOTs and BOTNETs</p> <p>Case-studies : Recent attacks – Yahoo, Adult Friend Finder, eBay, Equifax,</p> <p>WannaCry, Target Stores, Uber, JP Morgan Chase, Bad Rabbit</p>
	FEB-MARCH	<p><u>Unit II:</u></p> <p>Ethical Hacking – I (Introduction and pre-attack)</p> <p>Introduction: Black Hat vs. Gray Hat vs. White Hat (Ethical) hacking. Why is Ethical hacking needed?, How is Ethical hacking different from security auditing and digital forensics?, Signing NDA, Compliance and Regulatory concerns, Black box vs. White box vs. Black box. Vulnerability</p>

		<p>assessment and Penetration Testing.</p> <p>Approach : Planning - Threat Modeling, set up security verification standards, Set up security testing plan – When, which systems/apps, understanding functionality, black/gray/white, authenticated vs. unauthenticated, internal vs. external PT, Information gathering, Perform Manual and automated (Tools: Webinspect/Qualys, Nessus, Proxies, Metasploit) VA and PT, How Webinspect/Qualys tools work: Crawling/Spidering, requests forging, pattern matching to known vulnerability database and Analyzing results, Preparing report, Fixing security gaps following the report</p> <p>Enterprise strategy : Repeated PT, approval by security testing team, Continuous Application Security Testing.</p> <p>Phases: Reconnaissance/foot-printing/Enumeration, Phases: Scanning, Sniffing</p>
	MARCH-APRIL	<p><u>Unit III:</u></p> <p>Ethical Hacking :Enterprise Security</p> <p>Phases : Gaining and Maintaining Access : Systems hacking – Windows and</p> <p>Linux – Metasploit and Kali Linux, Keylogging, Buffer Overflows, Privilege Escalation, Network hacking – ARP Poisoning, Password Cracking, WEP Vulnerabilities, MAC Spoofing, MAC Flooding, IPspoofing, SYN Flooding, Smurf attack, Applications hacking : SMTP/Email-based attacks, VOIP vulnerabilities, Directory traversal, Input Manipulation, Brute force attack, Unsecured login mechanisms, SQL injection, XSS, Mobile apps security,</p>

			<p>Malware analysis : Netcat Trojan, wrapping definition, reverse engineering</p> <p>Phases : Covering your tracks (Steganography, Event Logs alteration)</p> <p>Additional Security Mechanisms : IDS/IPS, Honeypots and evasion techniques, Secure Code Reviews (Fortify tool, OWASP Secure Coding Guidelines)</p>
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Subject Teacher


Head of the Department


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ACS College, Kalamdoli,
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SES'S

SHIKSHAN MAHARASHI DADASAHEB LIMAYE ARTS, COMMERCE
AND SCIENCE COLLEGE, KALAMBOLI

Teaching Plan

Academic Year 2020 -2021

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class-T.Y.B.Sc. Chemistry

Semester : V

Name of the Professor : Bhagat V.S.

COURSE CODE: USCH502

Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
UNIT.1 : Molecular Symmetry and Chemical Bonding Available Lectures: - 6L			
1	Aug 2020	1	1.CHEMICAL BONDING 1.1.1 Introduction and Importance of Symmetry in Chemistry,
2	Aug 2020	3	1.1.2 Symmetry elements and Symmetry operations a) Centre of Symmetry or Inversion Centre (i) eg.trans dichloroethylene b) Proper Rotational axis (C_n) eg. C_2 rotational axis of symmetry in H_2O c)Plane of symmetry or Mirror plane (σ) d)Improper rotational axis (S_n) eg. Rotation –reflection operation in trans dichloroethylene e)The Identity (E) i)We do not do anything on the molecule ii)we rotate the molecule through 360° ($\theta = 360^\circ$) $C_2 = E$ or $S_n = E$
			1.1.3 Concept of a Point Group with illustrations using the following point groups :(i)$C_{\infty v}$ (ii) $D_{\infty h}$ (iii) C_{2v} (iv) C_{3v} (v)C_{2h} and (vi)D_{3h} Concept of a Point Group

3	Aug 2020	2	I) C-type point groups II) D-type Point groups III) Higher symmetry point groups i) $C_{\infty v}$ Point groups. Eg: HCL, S=C=O ii) $D_{\infty h}$ Point groups. eg: H-H molecule iii) C_{2v} Point groups. eg: H ₂ O molecule iv) C_{3v} Point groups. eg: NH ₃ molecule v) C_{2h} Point groups. eg: trans-dichloroethylene. vi) D_{3h} Point groups. eg: BCl ₃
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Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
UNIT.1 : Molecular Symmetry and Chemical Bonding Available Lectures: -9L			
1	Aug 2020	1L	1.2 Molecular Orbital Theory for heteronuclear diatomic and polyatomic species Introduction 1 Molecular Orbital Theory <ul style="list-style-type: none"> • Grade & Ungraded nature of s, p and d orbitals • Symmetry of molecular orbitals Approximately the same energy ii) same or matching symmetry iii) positive overlap to form bonding orbital. • Combination of atomic orbitals for the formation of MOs
2	Aug 2020	3L	1.2.1 Comparison between homonuclear diatomic molecular orbitals and heteronuclear diatomic molecules. <ul style="list-style-type: none"> • Homonuclear Diatomics Molecules consisting of two identical atoms are said to be homonuclear diatomic, such as: H₂, N₂, O₂, and F₂. <ul style="list-style-type: none"> i) The atomic orbitals of the two atoms are from the same valence shell & their energy levels should be nearly the same ii) The symmetry individuals A.Os with respect to the axis joining the two nuclei are the same even after the A.Os combine iii) The orbitals are directed in space in such a way that

			<p>they can have maximum overlap.</p> <ul style="list-style-type: none"> • Heteronuclear Diatomics Molecules consisting of two non-identical atoms are said to be heteronuclear diatomic, such as: CO, NO, HF, and LiF. <p>i) The two atoms have different electronegativities. ii) have different exchange energy. iii) The contribution of atomic orbitals towards the molecular orbitals is not the same</p> <p>A) Effect of different electronegativities. B) Effect on covalent bond energy C) Contribution of atomic orbitals towards the molecular orbitals</p>
3	Sep 2020	2L	<p>1.2.2. Heteronuclear diatomic molecules like CO, NO and HCl, appreciation of modified MO diagram for CO.</p> <p>1) Carbon monoxide : CO molecule Improved or modified molecular orbital diagram 2) Nitric Oxide: NO molecule 3) Hydrogen Chloride : HCL molecule</p>
4	Sep 2020	3L	<p>1.2.3 Molecular orbital theory for molecular species using H_3 and H_3^+ (correlation diagram expected).</p> <p>i) Molecular orbital theory for molecular Polyatomic species ii) Labelling of orbitals in linear and non linear molecule iii) Trihydrogen H_3 Species & Trihydrogen ion H_3^+ .i) Formation of group orbitals, ii) Combination of atomic orbitals of central atom (Hc) with the group orbitals iv) BeH_2 molecule. v) Water molecule.</p>

Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
UNIT.3 : Chemistry of Inner Transition Elements			Available Lectures: - 15L
1	Sep 2020	2	3.1 Introduction :, Position in periodic table and electronic configuration of lanthanides and actinides.
2	Sep 2020	6	3.2 Chemistry of Lanthanides Lanthanides series i) Electronic configuration Properties of lanthanides a)Oxidation state b) Lanthanide Contraction & its Consequences Effects of lanthanides contraction i)decreasing basicity ii)Variation in the properties of lanthanides iii)Similarities between yttrium and lanthanons iv)similarities between zirconium and hafnium v)Abnormally high densities of post lanthanides vi) Nobel character of post lanthanides c)Magnetic and spectral Properties d) Ability to form complexes i)Ion-pair associations ii)Non-chelated species
3	Sep -2020	6	3.3 :Occurrence, extraction and separation of lanthanides by (i) Ion Exchange method and (ii) Solvent extraction method (Principles and technique) i)Extraction Individual separation i)Ion Exchange method Ion exchange equilibria and the significance of complexing agent ii)Solvent extraction method Tributyl phosphate (TBP) extraction Bis(2-ethyl hexyl) Phosphoric acid (HDEHP) Extraction
4	Sep 2020	1	3.4 Applications of lanthanides i) Commercial applications ii)Nuclear applications iii) Magnetic,Electronics,and Laser Applications

Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
UNIT.2 : Solid State Chemistry			Available Lectures: - 11L
1	Sep -2020	2	2.1 Structures of Solids Introductions 2.2.1 Explanation of terms viz.crystal lattice, lattice points, unit cells and lattice constants. 1)Crystal lattice or space lattice: Lattice means network. Crystal lattice is an orderly array of repeating unit 2) Lattice Points: The points at which the particles are arranged are called lattice point 3)Unit cell : The smallest geometrical portion of the crystal which can be used to build up the whole crystal 4)Lattice Constants
2	Sep -2020	5	2.1.2 Closest packing of rigid spheres(hcp,ccp), packing density in simple cubic, bcc and fcc lattices. Relationship between density, radius of unit cell and lattice parameters. Efficiency of Packing i)Atomic packing factor or packing density in a simple cubic (SC) lattice ii)Packing density in body centered cubic (bcc) lattice iii) Packing density in Face centered cubic (fcc) lattice Relation between density,radius of unit cell and lattice parameters
3	Oct -2020	4L	2.1.3 Stoichiometric Point defects in solids (discussion on Frankel and Schottky defects expected). Introduction <ul style="list-style-type: none"> Point defects <ol style="list-style-type: none"> Impurities Interstitial Vacancies Consequences of Frankel and Schottky defects.

4	Oct -2020	2	2.2 Superconductivity (4L) 2.2.1 Discovery of superconductivity
			2.2.2 Explanation of terms like superconductivity, transition temperature, Meissner effect.
		2	2.2.3 Different types of super conductors viz.conventional superconductors, alkali metal fullerenes, high temperature super conductors.
			2.2.4 Brief application of superconductors.

Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
UNIT.4 : Some selected topics			Available Lectures: - 15L
1	Oct -2020	2	4. SOME SELECTED TOPICS 4.1 Chemistry of Non-aqueous Solvents (5 L) Physical properties i)Melting and boiling points ii)Heat of fusion and vaporization iii)Dipole moment iv)Dielectric constant v)Viscosity Chemical Properties i)Acidic and basic characteristics ii)oxidizing and reducing characteristics
2	Oct -2020	1	4.1.1Classification of solvents and importance of non-aqueous solvents. 1.Classification of solvents i)Protic and aprotic solvents ii)Acid solvents, Basic solvents, Amphiprotic solvents iii)Ionizing and Non-ionizing solvents importance of non-aqueous solvents
			4.1.2 Characteristics and study of liquid ammonia, dinitrogen tetra oxide as non-aqueous solvents with respect to : (i) acid-base reactions and (ii) redox reactions

3	Oct -2020	2	Liquid ammonia: Solubility in liquid ammonia a)Ionic compounds b)Non-metals c)Metals Chemical Reaction in liq.Ammonia: a)Acid-base reaction b)Redox reactions Liquid Dinitrogen : a)Acid-base reaction b)Complex formation reactions c)Reaction with metals d)Solvate formation
1	Oct -2020	2L	4.2 Comparative Chemistry of Group 16 (5L) Electronic Configuration Physical properties Trends in Physical properties 1)Atomic size ,atomic volume and density 2)Ionization energy,electropositive and electronegative 3)Non-metallic and metallic character 4)Melting and boiling points 5)conductivity 6)oxidation states : a)By passing 2 electrons b)By sharing 2 electrons c)By forming a double bond d)By accepting a pair of electrons 7)Catenation 8)Tendency towards formation of hydrogen bond 9)Molecular structure 10)Allotropy Anomalous behavior of oxygen
2	Oct -2020	1L	4.2.1 General characteristics, allotropy ,oxides and oxoacids of Sulphur Allotropy,oxygen,Sulphur 1)Rhombic or Sulphur 2)Monoclinic or β Sulphur 3) γ Sulphur 4)Plastics or γ Sulphur 5)Colloidal Sulphur 6)Engel's or ϵ Sulphur Selenium ,Tellurium and Polonium

			Chemical properties
3	Oct -2020	2L	4.2.2 Manufacture of sulphuric acid by contact process. Principles : Choice of catalyst a)Platinised asbestos b)Vanadium pentoxide (V_2O_5) Effects of pressure Effect of concentration
1	Oct -2020	1L	4.3 Comparative Chemistry of Group 17 (5L) Electronic Configuration Trends in Physical properties and Chemical properties Chemical Properties i)Reaction with metals and non-metals ii)Reaction with water iii) Reaction with Hydrogen iv) Reaction with Hydrocarbons v)Reaction with Alkali vi)Bleaching action Displacement reactions
2	Oct -2020	2L	4.3.1 General characteristics, anomalous properties of fluorine, compounds with hydrogen(preparation and properties), oxoacids of chlorine Trends in properties i)Thermal stability ii)Acid strength iii)oxidizing property Structure and geometry of oxyacid of chlorine i)Hypochlorite ion ii)Chlorite ion iii)chlorate ion iv)Perchlorate ion
3	Oct -2020	2L	4.3.2 Chemistry of interhalogens with reference to preparations, properties and structures (on the basis of VSEPR theory) . General methods of preparations

		i) Direct combination of halogens ii) Action of halogens on interhalogens iii) Disproportionation General Properties Structures of interhalogens 1) XY type interhalogen 2) XY ₃ type interhalogen 3) XY ₅ type interhalogen 4) XY ₇ type interhalogen
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Subject teacher

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Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
Course USCHP502: Inorganic Practical's			
1	Aug. -Sep Oct		Course USCH502: Inorganic Practical's I. Inorganic preparations 1. Preparation of Potassium diaquobis-(oxalato)cuprate (II) 2. Preparation of Ferrous ethylene diammonium sulphate. 3. Preparation of bisacetylacetonatocopper(II) 4. II. Determination of percentage purity of the given water soluble salt and qualitative detection w.r.t added cation and/or anion (qualitative analysis only by wet tests). (Any three salts of transition metal ions)

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SHIKSHAN MAHARASHI DADASAHEB LIMAYE ARTS, COMMERCE
AND SCIENCE COLLEGE, KALAMBOLI

Teaching Plan

Academic Year 2020 -2021

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class-T.Y.B.Sc. Chemistry

Semester : VI

Name of the Professor : Bhagat V.S.

COURSE CODE: USCH602

Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
UNIT.1 : 1.Theories of the metal-ligand bond (I)			Available Lectures: - 15L
1	Jan- 2021	3	1.1 Limitations of Valence Bond Theory. 1.2 Crystal Field Theory and effect of crystal field on central metal valence orbitals in various geometries from linear to octahedral(from coordination number 2 to coordination number 6)
2	Jan- 2021	3	1.3 Splitting of <i>d</i> orbitals in octahedral, square planar and tetrahedral crystal fields. 1.4 Distortions from the octahedral geometry : (i) effect of ligand field and (ii) Jahn-Teller distortions.
3	Jan- 2021	2	1.5 Crystal field splitting parameters Δ ; its calculation and factors affecting it in octahedral complexes, Spectrochemical series.
4	Jan- 2021	2	1.6 Crystal field stabilization energy(CFSE), calculation of CFSE for octahedral complexes with d^0 to d^{10} metal ion configurations.
5	Jan- 2021	3	1.7 Consequences of crystal field splitting on various properties such as ionic radii, hydration energy and enthalpies of formation of metal complexes of the first transition series.

6	Jan- 2021	2	1.8 Limitations of CFT : Evidences for covalence in metal complexes intensities of d-d transitions, (ii) ESR spectrum of $[\text{IrCl}_6]^{2-}$ (iii) Nephelauxetic effect.
UNIT-II : 2.Theories of the metal-ligand bond (II)			
			2.1 Molecular orbital Theory for coordination compounds. (4L)
1	Jan- 2021	2	2.1.1 Identification of the central metal orbitals and their symmetry suitable for formation of σ bonds with ligand orbitals. 2.1.2 Construction of ligand group orbitals. 2.1.3 Construction of σ -molecular orbitals for an ML_6 complex.
2		1	2.1.4 Effect of π -bonding on complexes
3		1	2.1.5 Examples like $[\text{FeF}_6]^{4-}$, $[\text{Fe}(\text{CN})_6]^{4-}$, $[\text{FeF}_6]^{3-}$, $[\text{Fe}(\text{CN})_6]^{3-}$, $[\text{CoF}_6]^{3-}$, $[\text{Co}(\text{NH}_3)_6]^{3+}$
			2.2 Stability of Metal-Complexes 4L
1	Jan- 2021	2	2.2.1 Thermodynamic and kinetic perspectives of metal complexes with examples. 2.2.2 Stability constants: stepwise and overall stability constants and their interrelationship.
2	Feb-2021	2	2.2.3 Factors affecting thermodynamic stability.
			2.3 Reactivity of metal complexes. 4L
3	Feb-2021	1	2.3.1 Comparison between Inorganic and organic reactions. 2.3.2 Types of reactions in metal complexes.
4		1	2.3.3 Inert and labile complexes : correlation between electronic configurations and lability of complexes.
5		1	2.3.4 Ligand substitution reactions : Associative and Dissociative mechanisms.
6		1	2.2.5 Acid hydrolysis, base hydrolysis and anation reactions.

			2.4 Electronic Spectra. 3L
1	Feb-2021	2	2.4.1 Origin of electronic spectra 2.4.2 Types of electronic transitions in coordination compounds: intra- ligand, Charge transfer and intra-metal transitions. 2.4.3 Selection rules for electronic transitions.
2	Feb-2021	1	2.4.4 Electronic configuration and electronic micro states, Terms and Term symbols for transition metal ions, rules for determination of ground state term. 2.4.5 Determination of Terms for p^2 and d^1 electronic configurations.
UNIT-III 3 ORGANOMETALLIC CHEMISTRY Available Lectures: -15L			
			3.1 Organometallic Compounds of main group metal (6L)
	Feb-2021	2	3.1.1 General characteristics of various types of organometallic compounds, viz. ionic, s-bonded and electron deficient compounds. 3.1.2 General synthetic methods of organometallic compounds : (i) Oxidative-addition, (ii) Metal-metal exchange (transmetallation), (iii) Carbanion-halide exchange, (iv) Metal-hydrogen exchange (metallation) and (v) Methylene- insertion reactions.
	Feb-2021	4	3.1.3 Some chemical reactions of organometallic compounds: (i) Reactions with oxygen and halogens, (ii) Alkylation and arylation reactions (iii) Reactions with protic reagents, (iv) Redistribution reactions and (v) Complex formation reactions.
			3.2 Metallocenes 5L
	Feb-2021	5	Introduction, Ferrocene : Synthesis, properties, structure and bonding on the basis of VBT.
			3.3 Catalysis 4L
	Feb-2021	2	3.3.1 Comparison between homogeneous and heterogeneous catalysis 3.3.2 Basic steps involved in homogeneous

			catalysis
	Feb-2021	2	3.3.3 Mechanism of Wilkinson's catalyst in hydrogenation of alkenes.
UNIT-IV : 4 SOME SELECTED TOPICS			Available Lectures: -15L
			4.1 Metallurgy 7L
	March-2021	7	4.1.1 Types of metallurgies, 4.1.2 General steps of metallurgy; Concentration of ore, calcinations, roasting, reduction and refining. 4.1.3 Metallurgy of copper: occurrence, physicochemical principles, Extraction of copper from pyrites & refining by electrolysis.
			4.2 Chemistry of Group 18 5L
	March-2021	2	4.2.1 Historical perspectives 4.2.2 General characteristics and trends in physical and chemical properties
	March-2021	3	4.2.3 Isolation of noble gases 4.2.4 Compounds of Xenon (oxides and fluorides) with respect to preparation and structure (VSEPR) 4.2.5 Uses of noble gases
			4.3 Introduction to Bioinorganic Chemistry. 3L
	March-2021	3	4.3.1 Essential and non essential elements in biological systems. 4.3.2 Biological importance of metal ions such as Na^+ , K^+ , $\text{Fe}^{+2}/\text{Fe}^{+3}$ and Cu^{+2} (Role of Na^+ and K^+ w.r.t ion pump)

Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
Course USCHP602: Inorganic Practical's			60L
1	Jan -feb- March-2021		<p>I. Inorganic preparations</p> <ol style="list-style-type: none"> 1. Preparation of Tris(acetylacetonato) iron(III) 2. Green synthesis of bis(dimethylglyoximato) nickel(II) complex using nickel carbonate and sodium salt of dmg . 3. Preparation of potassium trioxalato aluminate (III) <p>II. Determination of percentage purity of the given water soluble salt and qualitative detection w.r.t added cation and/or anion (qualitative analysis only by wet tests).</p> <p>(Any three salts of main group metal ions)</p>

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Teaching Plan

Academic Year 2020 -2021

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class- F.Y.B.Sc. Chemistry

Semester : I

Name of the Professor : Bhagat V.S.

Available Lectures: - 10L

Paper -I (UNIT.II)

Sr.No.	Month	Period/ Lecture s	Topic/Sub topic to be taught
SEMESTER I – Paper I			
1	Sep- Oct - 2020	10L	<p>2.1 Atomic structure: (10L) (Qualitative treatment only; it is expected that the learner knows the mathematical statements and understands their physical significance after completing this topic. No derivations of the mathematical equations required)</p> <p>a) Historical perspectives of the atomic structure; Rutherford's Atomic Model, Bohr's theory, its limitations and atomic spectrum of hydrogen atom. Structure of hydrogen atom.</p> <p>Rutherford's Atomic structure Drawbacks Rutherford's Atomic structure Bohr's theory Atomic spectrum of hydrogen atom Limitations of Bohr's Theory Dual Nature of electrons-Particles waves Heisenberg's uncertainty Principle</p> <p>Hydrogenic atoms: 1.Simple principles of quantum mechanics; a)Atomic orbitals</p> <ul style="list-style-type: none">• Hydrogenic energy levels• Shells, subshells and orbitals

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Teaching Plan

Academic Year 2020 -2021

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class- F.Y.B.Sc. Chemistry

Semester : II

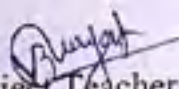
Name of the Professor : Bhagat V.S.

Available Lectures: -

Sr.No	Month	Period/ Lecture s	Topic/Sub topic to be taught
Paper I : Unit II			
1	Jan-Feb 2020	7	2.1 Concept of Qualitative Analysis: a) Testing of Gaseous Evolutes, Role of Papers impregnated with Reagents in qualitative analysis (with reference to papers impregnated with starch iodide, potassium dichromate, lead acetate, dimethylglyoxime and oxine reagents). b) Precipitation equilibria, effect of common ions, uncommon ions, oxidation states, buffer action, complexing agents on precipitation of ionic compounds. (Balanced chemical equations and numerical problems expected.)
2	Jan - Feb- 2021	8	2.2 Acid Base Theories: Arrhenius, Lowry- Bronsted, Lewis, Solvent – Solute concept of acids and bases, Hard and Soft acids and bases. Applications of HSAB Applications of acid base chemistry in:

			i) Understanding organic reactions like Friedel Craft's (acylation/alkylation) reaction ii) Volumetric analysis with special reference to calculation of titration curve involving strong acid and strong base.
SEMESTER II – Paper II Unit II			
1	Feb-2021	7	2.1: Chemical Bond and Reactivity: Types of chemical bond, comparison between ionic and covalent bonds, polarizability (Fajan's Rule), shapes of molecules, Lewis dot structure, Sidgwick Powell Theory, basic VSEPR theory for AB _n type molecules with and without lone pair of electrons, isoelectronic principles, applications and limitations of VSEPR theory.
2	Mar-2021	8	2.2: Oxidation Reduction Chemistry: a) Reduction potentials b) Redox potentials: half reactions; balancing redox equations. c) Redox stability in water i) Latimer and Frost Diagrams ii) pH dependence of redox potentials. d) Applications of redox chemistry i) Extraction of elements: (example: isolation of copper by auto reduction) ii) Redox reagents in Volumetric analysis: a) I ₂ ; b) KMnO ₄ iii) Titration curves: i) single electron systems (example Ce(IV) against Fe(II)); and ii) Multi electron systems as in KMnO ₄ against Fe(II))
CHEMISTRY Practical (LAB): Semester II			

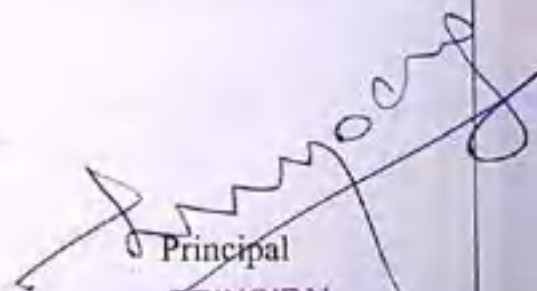
1	Feb - March 2021	<p>1. Qualitative analysis: (at least 4 mixtures to be analyzed) Semi-micro inorganic qualitative analysis of a sample containing two cations and two anions. Cations (from amongst): Pb^{2+}, Ba^{2+}, Ca^{2+}, Sr^{2+}, Cu^{2+}, Cd^{2+}, Fe^{2+}, Ni^{2+}, Mn^{2+}, Mg^{2+}, Al^{3+}, Cr^{3+}, K^{+}, NH_4^{+} Anions (From amongst): CO_3^{2-}, S^{2-}, SO_3^{2-}, NO_2^{-}, NO_3^{-}, Cl^{-}, Br^{-}, I^{-}, SO_4^{2-}, PO_4^{3-} (Scheme of analysis should avoid use of sulphide ion in any form for precipitation / separation of cations.)</p> <p>2. Redox Titration: To determine the percentage of copper(II) present in a given sample by titration against a standard aqueous solution of sodium thiosulfate (iodometry titration)</p>
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Subject Teacher


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Department of Chemistry
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AND SCIENCE COLLEGE, KALAMBOLI****Teaching Plan****Academic Year 2020 -2021****Name of the Faculty- Science****Sub- Inorganic Chemistry****Class-S.Y.B.Sc. Chemistry****Semester : III****Name of the Professor : Bhagat V.S.****COURSE CODE: USCH301**

Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
Semester III-Paper I			
UNIT.II : Chemical Bonding			Available Lectures: - 15L
1	Aug 2020	4	2.1.Non-directional Bonding 2.1.1 Ionic Bond: Conditions for the Formation of Ionic Bond. 2.1.2 Types of Ionic Crystals 2.1.3 Radius Ratio Rules 2.1.4 Lattice Energy, Borne-Lande Equation 2.1.5 Kapustinski Equation 2.1.6 Born-Haber Cycle and its Application
2.2 Directional Bonding: Orbital Approach.			(6L)
2	Aug- Sep 2020	6	2.2.1 Covalent Bonding The Valence Bond Theory- Introduction and basic tenets. 2.2.2 Interaction between two hydrogen atoms and the Potential energy diagram of the resultant system. 2.2.3 Corrections applied to the system of two hydrogen atoms- Formation of H ₂ 2.2.4 Homonuclear diatomic molecules from He ₂ to Ne ₂ 2.2.5 Resonance and the concept of Formal Charge; Rules for Resonance or Canonical structures.

			<p>2.2.6 Bonding in Polyatomic Species: The role of Hybridization, And types of hybrid orbitals-sp, sp^2, sp^3, sp^3d, sp^3d^2 and sp^3d sp^3d^2.</p> <p>2.2.7 Equivalent and Non-Equivalent hybrid orbitals</p> <p>2.2.8 Contribution of a given atomic orbital to the hybrid orbitals (with reference to sp^3 hybridisation as in CH_4, NH_3 and H_2O and series like NH_3, PH_3, AsH_3, BiH_3)</p>
2.3 Molecular Orbital Theory			(5L)
3	Sep 2020	5	<p>2.3.1. Comparing Atomic Orbitals and Molecular Orbitals.</p> <p>2.3.2. Linear combination of atomic orbitals. to give molecular orbitals LCAOMO approach for diatomic homonuclear molecules).</p> <p>2.3.4. Wave mechanical treatment for molecular orbitals (H_2^+ and H_2)</p> <p>2.3.4 Molecular orbital Theory and Bond Order and magnetic property: with reference to O_2, O_2^+, O_2^-, O_2^{2-}</p> <p>(Problems and numerical problems expected wherever possible)</p>
Semester III-Paper II			
Unit-II 2. Selected topics on p block elements			(15L)
1	Sep-Oct-2020	5	<p>2.1 Chemistry of Boron compounds</p> <p>2.1.1 Electron deficient compounds – BH_3, BF_3, BCl_3 with respect to Lewis acidity and applications.</p> <p>2.1.2 Preparation of simple boranes like diborane and tetraborane.</p> <p>2.1.3 Structure and bonding in diborane and tetraborane (2e-3c bonds)</p> <p>2.1.4 Synthesis of Borax.</p>
2	Oct-2020	5	<p>2.2 Chemistry of Silicon and Germanium</p> <p>2.2.1 Silicon compounds: Occurrence, Structure and inertness of SiO_2</p> <p>2.2.2 Preparation of structure of $SiCl_4$</p>

			2.2.3 Occurrence and extraction of Germanium 2.2.4 Preparation of extra pure Silicon and Germanium
3	Oct-Nov-2020	5	2.3 Chemistry of Nitrogen family 2.3.1 Trends in chemical reactivity - Formation of hydrides, halides, oxides with special reference to oxides of nitrogen. 2.3.2 Oxides of nitrogen with respect to preparation and structure of NO, NO ₂ , N ₂ O and N ₂ O ₄ . 2.3.3 Synthesis of ammonia by Bosch – Haber process.
Semester III Chemistry Practicals:			
1	Sep-Oct-Nov-2020		Unit II: Inorganic Chemistry Identification of cations in a given mixture and Analytically separating them [From a mixture containing not more than two of the following: Pb(II), Ba(II), Ca(II), Sr (II), Cu(II), Cd(II), Mg(II), Zn(II), Fe(II), Fe(III), Ni(II), Co(II) Al(III), Cr(III)] Crystallisation of potassium iodate and to estimate its purity before and after the separation. Estimation of total hardness Investigation of the reaction between Copper sulphate and Sodium Hydroxide (Standard EDTA solution to be provided to the learner).

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Teaching Plan

Academic Year 2020 -2021

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class-S.Y.B.Sc. Chemistry

Semester : IV

Name of the Professor : Bhagat V.S.

COURSE CODE: USCH401

Sr.No.	Month	Period / Lectures	Topic/Sub topic to be taught
Semester IV-Paper I			
Unit-II 2.1 Comparative Chemistry of the transition metals			(9L)
1	Jan-2021	9	<p>2.1.1 Position in the periodic table; Natural occurrence principal ores and minerals;</p> <p>2.1.2 Significance of special stability of d^0, d^5 and d^{10} leading to variable oxidation states; Unusual oxidation states and their stabilities in aqueous solutions (with special reference to vanadium, and chromium.)</p> <p>2.1.3 Origin of colour for transition metals and their compounds: such as reflectivity, surface coatings, particle size, packing density for metals and nature of d-orbitals, number of electrons in the d-orbitals, geometry, and ability for charge transfer).</p> <p>2.1.4 Magnetic properties of transition metal compounds: Origin of magnetism-spin and orbital motion of electrons; equation for spin only and spin-orbital magnetism in terms of Bohr magnetons (No derivation of relevant equations expected); Reasons for quenching of orbital moments.</p>

			<p>2.1.5 Chemistry of Titanium and vanadium: properties of Oxides and chlorides; use in titrimetric analysis</p> <p>2.1.6 Qualitative tests for transition metal ions: General considerations in devising tests (with reference to Chromium, Manganese, iron, Cobalt Nickel and Copper)</p>
2.2 Coordination Chemistry			(6 L)
2	Feb-2021	6	<p>2.2.1 Introduction to Chemistry of Coordination Compounds</p> <p>i. Historical perspectives: Early ideas on coordination compounds</p> <p>ii. Basic terms and nomenclature.</p> <p>iii. Types of ligands</p> <p>Isomerism :General Types with special reference to stereoisomerism of coordination compounds (C.N=6)</p> <p>Evidence for the formation of coordination compounds,</p> <p>2.2.2. Theories of coordination compounds</p> <p>Werner's Theory of coordination compounds, Effective atomic number rule. iii. Eighteen electron Rule</p> <p>2.2.3. Nature of the Metal-Ligand Bond:</p> <p>Valence Bond Theory; Hybridisation of the central metal orbitals-sp^3, sd^3/d^3s sp^3d^2/d^2sp^3, sp^2d, Inner and outer orbital complexes of .(suitable examples of Mn(II)</p> <p>Fe(II),Fe(III),Co(II)/Co(III),Ni(II), Cu(II) Zn(II) complexes with ligands like aqua, ammonia CN^- and halides may be used)</p> <p>Limitations of V.B.T</p> <p>2.2.4. Application of coordination compounds</p>
Semester IV-Paper II			
Unit-II : 2 Ions in aqueous medium			15L

1	Feb-March-2021	11	<p>2.1. Acidity of Cations and Basicity of Anions Hydration of Cations; Hydrolysis of Cations predicting degree of hydrolysis of Cations-effect of Charge and Radius. Latimer Equation. Relationship between pKa, acidity and z^2/r ratios of metal ions graphical Presentation Classification of cations on the basis of acidity category – Non acidic, Moderately acidic, strongly acidic, very strongly acidic with pKa values range and examples Hydration of Anions; Effect of Charge and Radius; Hydration of anions- concept, diagram classification on the basis of basicity</p>
2	April-2021	4	<p>2.2. Uses and Environmental Chemistry of volatile Oxides and oxo-acids i. Physical properties of concentrated oxo-acids like sulfuric, Nitric and Phosphoric acid ii. Uses and environments aspects of these acids</p>
<p align="center">Semester IV Chemistry Practicals:</p>			
1	Jan-Feb-March-2021		<p>Unit II: Inorganic Chemistry Inorganic preparation – Nickel dimethyl glyoxime using microscale method. Complex cation – <i>Tris</i> (ethylene diamine) nickel (II) thiosulphate. Complex anion – Sodium Hexanitrocobaltate (III) The aim of this experiment is to understand the preparation of a soluble cation (sodium) and a large anion hexanitrocobaltate(III) and its use to precipitate a large cation (potassium) Inorganic salt – Calcium or magnesium oxalate using PFHS technique</p>

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Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.
Teaching plan Botany 2020-21

Name of the Faculty : - Dr. Usha Sainger

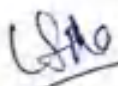
Class :- F.Y B.Sc Plain Semester- I

Sub :- Botany

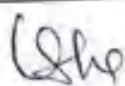
Department : Botany

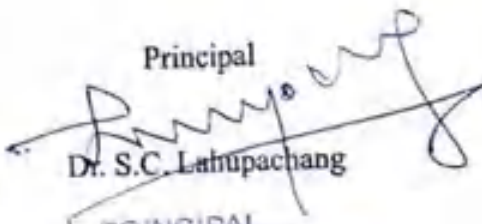
Sr. No	Month	Available Periods	Topic/ SubTopic to be taught
1.	September	15	PAPER I : UNIT - I ALGAE 1) Structure, life cycle and systematic position of Nostoc and Spirogyra. 2) Economic importance of Algae. 3) General characteristics of Chlorophyta : Distribution; cell structure; pigments; reserve food; range of thallus; reproduction - vegetative, asexual and sexual; alternation of generations.
2.	October/	15	PAPER II : UNIT - I CELL BIOLOGY 1) General structure of plant cell: cell wall Plasma membrane (bilayer lipid structure, fluid mosaic model). 2) Ultra structure and functions of the following cell organelles: Endoplasmic reticulum and Chloroplast
3.	October November	15	PAPER I : UNIT - II FUNGI 1) Structure, life cycle and systematic position of Rhizopus and Aspergillus. 2) Economic importance of Fungi. 3) Modes of nutrition in Fungi (Saprophytism and Parasitism). 4) General characteristics of Phycomycetes; Occurrence; hyphal structure; reproduction; alternation of generations.

4.	December	14	PAPER II : UNIT - II ECOLOGY 1) Energy pyramids, energy flow in an ecosystem. 2) Types of ecosystems: aquatic and terrestrial.
5.	December	15	PAPER I : UNIT - III BRYOPHYTA 1) General characters of Hepaticae. 2) Structure, life cycle and systematic position of Riccia. 3) Morphology and anatomy of Riccia. 4) Development of sporophyte. 5) Alternation of generation.
6.	January	16	PAPER II : UNIT - III GENETICS 1) Phenotype/Genotype, Mendelian Genetics- monohybrid, dihybrid; test cross; back cross ratios. 2) Epistatic and non epistatic interactions; multiple alleles. 3) Gene interaction, epistasis.


 Subject Teacher

Dr. Usha Sainger


 Head of the Department

Principal

 Dr. S.C. Lahupachang
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 Tal.- Panvel, Dist. - Raigad.

SRS's

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamholi,

Teaching Plan - Academic Year - 2020-21

Name of the Faculty - Dr. Usha Sainger


Class :- F.Y.B.Sc Plain Semester- II


Sub :- Botany


Department : Botany

Sr. No.	Month	Available Periods	Topic/ SubTopic to be taught
1.	February	11	PAPER I : UNIT - I PTERIDOPHYTES 1) Structure life cycle, systematic position and alternation of generations in Nephrolepis. External morphology, internal morphology, asexual reproduction, development of gametophyte (prothallus). 2) Stele evolution. <ul style="list-style-type: none">• Most primitive type of steles.• Advanced type of steles.• More advanced type of steles.• Most / highly advanced type of steles.
2.	February/March	12	PAPER II : UNIT - I ANATOMY 1) Types of simple permanent tissue. 2) Complex permanent tissue. 3) Primary structure of dicot and monocot root, stem and leaf. 4) Epidermal tissue system: types of hair, monocot and dicot stomata. 5) T.S. of dicot and monocot roots, stem and leaves.
3.	March	12	PAPER I : UNIT - II GYMNOSPERMS 1) Structure life cycle systematic position and alternation

			<p>of generations in Cycas.</p> <p>2) External and internal morphology of sporophyte, reproduction</p> <p>3) Economic importance of Gymnosperms.</p>
4.	March	10	<p>PAPER II : UNIT - II</p> <p>PHYSIOLOGY</p> <p>1) Photosynthesis: Light reactions, photolysis of water, photophosphorylation (cyclic and non cyclic), carbon fixation phase (C3, C4 and CAM pathways).</p>
5.	April	12	<p>PAPER I : UNIT - III</p> <p>ANGIOSPERMS</p> <p>1) Leaf: simple leaf, types of compound leaves, Incisions of leaf venation, phyllotaxy, types of stipules, leaf apex, leaf margin, leaf base, leaf shapes. Modifications of leaf: spine, tendril, hooks, phyllode, pitcher, Drosera or insectivorous plants</p> <p>2) Inflorescence: Racemose: simple raceme, spike, catkin, spadix, panicle. Cymose: monochasial, dichasial, polychasial. Compound: corymb, umbel, cyathium, capitulum, verticillaster, hypanthodium.</p> <p>3) Study of following families: Malvaceae, Amaryllidaceae</p>
6.	April	10	<p>PAPER II : UNIT - III</p> <p>MEDICINAL BOTANY</p> <p>1) Concept of primary and secondary metabolites, difference between primary and secondary metabolites.</p> <p>2) Grandma's pouch: Following plants have to be studied with respect to botanical source, part of the plant used, active constituents present and medicinal uses: <i>Oscimum sanctum</i>, <i>Adathoda vasica</i>, <i>Zinziber officinale</i>, <i>Curcuma longa</i>, <i>Santalum album</i>, <i>Aloe vera</i>.</p>


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 Principal
 Dr. S.C. Lahapachang



PRINCIPAL
 SES'S S. M. Dadasaheb Limaye
 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

SES's

Shikshan Maharnhi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli,
Teaching Plan : Academic Year : 2019-20

Name of the Faculty : - Dr. Usha Sainger

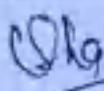
Class :- F.Y B.Sc Plain Semester- II

Sub :- Botany

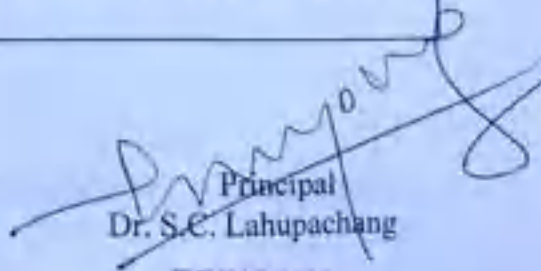
Department : Botany

Sr. No.	Month	Available Periods	Topic/ SubTopic to be taught
1.	December	15	PAPER I : UNIT - I PTERIDOPHYTES 1) Structure life cycle, systematic position and alternation of generations in Nephrolepis. External morphology, internal morphology, asexual reproduction, development of gametophyte (prothallus). 2) Stellar evolution: <ul style="list-style-type: none">• Most primitive type of steles.• Advanced type of steles.• More advanced type of steles.• Most / highly advanced type of steles.
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5.	February/ March	12	<p>PAPER I : UNIT - III</p> <p>ANGIOSPERMS</p> <p>1) Leaf: simple leaf, types of compound leaves, Incisions of leaf venation, phyllotaxy, types of stipules, leaf apex, leaf margin, leaf base, leaf shapes. Modifications of leaf: spine, tendril, hooks, phyllode, pitcher, Drosera or insectivorous plants.</p> <p>2) Inflorescence: Racemose: simple raceme, spike, catkin, spadix, panicle, Cymose: monochasial, dichasial, polychasial. Compound: corymb, umbel, cyathium, capitulum, verticillaster, hypanthodium.</p> <p>3) Study of following families: Malvaceae, Amaryllidaceae,</p>
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Subject Teacher
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Head of the Department


Principal
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SES's

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year : 2018-19

Name of the Faculty : - Dr. Usha Sainger

Class :- F.Y B.Sc Plain Semester- II

Sub :- Botany

Department : Botany

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Subject Teacher
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Head of the Department



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SES's

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Teaching Plan : Academic Year : 2017-18

Name of the Faculty : - Dr. Usha Sainger

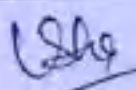
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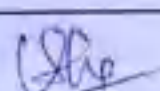
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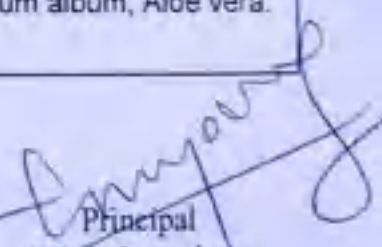
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Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan : Academic Year : 2016-17

Name of the Faculty : - Dr. Usha Sainger

Class :- F.Y B.Sc Plain Semester- II

Sub :- Botany

Department : Botany

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Tal - Panvel, Dist - Raigad.



Shikshan Mahavidyalaya, Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.
Teaching Plan : Academic Year : 2015-16

Name of the Faculty : - Dr. Usha Sainget

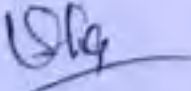
Class > F.Y B.Sc Plant Semester- II


Sub > Botany

Department : Botany

Sr No.	Month	Available Periods	Topic/ SubTopic to be taught
1.	December	15	PAPER I : UNIT - I PTERIDOPHYTES <ol style="list-style-type: none"> 1) Structure life cycle, systematic position and alternation of generations in Nephrolepis. External morphology, internal morphology, asexual reproduction, development of gametophyte (prothallus). 2) Stele evolution <ul style="list-style-type: none"> • Most primitive type of steles. • Advanced type of steles. • More advanced type of steles. • Most / highly advanced type of steles.
2.	December / January	15	PAPER II : UNIT - I ANATOMY <ol style="list-style-type: none"> 1) Types of simple permanent tissue. 2) Complex permanent tissue. 3) Primary structure of dicot and monocot root, stem and leaf. 4) Epidermal tissue system: types of hair, monocot and dicot stomata. 5) T.S. of dicot and monocot roots, stem and leaves.
3.	January	15	PAPER I : UNIT - II GYMNOSPERMS <ol style="list-style-type: none"> 1) Structure life cycle systematic position and alternation

			<p>of generations in Cycas.</p> <p>2) External and internal morphology of sporophyte, reproduction.</p> <p>3) Economic Importance of Gymnosperms.</p>
4.	February	15	<p>PAPER II : UNIT - II</p> <p>PHYSIOLOGY</p> <p>1) Photosynthesis: Light reactions, photolysis of water, photophosphorylation (cyclic and non cyclic), carbon fixation phase (C3, C4 and CAM pathways).</p>
5.	February/ March	12	<p>PAPER I : UNIT - III</p> <p>ANGIOSPERMS</p> <p>1) Leaf: simple leaf, types of compound leaves, incisions of leaf venation, phyllotaxy, types of stipules, leaf apex, leaf margin, leaf base, leaf shapes. Modifications of leaf: spine, tendril, hooks, phyllode, pitcher, Drosera or insectivorous plants.</p> <p>2) Inflorescence: Racemose: simple raceme, spike, catkin, spadix, panicle. Cymose: monochasial, dichasial, polychasial. Compound: corymb, umbel, cyathium, capitulum, verticillaster, hypanthodium.</p> <p>3) Study of following families: Malvaceae, Amaryllidaceae.</p>
6.	March	15	<p>PAPER II : UNIT - III</p> <p>MEDICINAL BOTANY</p> <p>1) Concept of primary and secondary metabolites, difference between primary and secondary metabolites.</p> <p>2) Grandma's pouch: Following plants have to be studied with respect to botanical source, part of the plant used, active constituents present and medicinal uses: <i>Oscimum sanctum</i>, <i>Adathoda vasica</i>, <i>Zinziber officinale</i>, <i>Curcuma longa</i>, <i>Santalum album</i>, <i>Aloe vera</i>.</p>


 Subject Teacher
 Dr. Usha Sainger


 Head of the Department

Principal
 Dr. S.C. Lahupachang

FFM/2022
 SED'S S. C. Lahupachang
 ACS College, Kalamukhi,
 Tal.-Panvel, Dist. - Raigad

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamholi
Teaching Plan : Academic Year : 2014-15

Name of the Faculty : - Dr. Usha Sainger

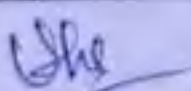
Class :- F.Y B.Sc Plain Semester- II

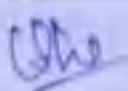
Sub :- Botany

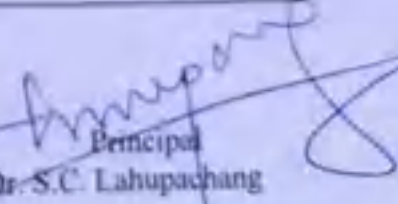
Department : Botany

Sr. No.	Month	Available Periods	Topic/ SubTopic to be taught
1.	December	15	PAPER I : UNIT - I PTERIDOPHYTES <ol style="list-style-type: none"> 1) Structure life cycle, systematic position and alternation of generations in Nephrolepis, External morphology, internal morphology, asexual reproduction, development of gametophyte (prothallus). 2) Stellar evolution: <ul style="list-style-type: none"> • Most primitive type of steles. • Advanced type of steles. • More advanced type of steles. • Most / highly advanced type of steles.
2.	December / January	15	PAPER II : UNIT - I ANATOMY <ol style="list-style-type: none"> 1) Types of simple permanent tissue. 2) Complex permanent tissue. 3) Primary structure of dicot and monocot root, stem and leaf. 4) Epidermal tissue system: types of hair, monocot and dicot stomata. 5) T.S. of dicot and monocot roots, stem and leaves.
3.	January	15	PAPER I : UNIT - II GYMNOSPERMS <ol style="list-style-type: none"> 1) Structure life cycle systematic position and alternation

			<p>of generations in <i>Cycas</i>.</p> <p>2) External and internal morphology of sporophyte, reproduction.</p> <p>3) Economic importance of Gymnosperms.</p>
4.	February	15	<p>PAPER II : UNIT - II</p> <p>PHYSIOLOGY</p> <p>1) Photosynthesis: Light reactions, photolysis of water, photophosphorylation (cyclic and non cyclic), carbon fixation phase (C3, C4 and CAM pathways).</p>
5.	February/ March	12	<p>PAPER I : UNIT - III</p> <p>ANGIOSPERMS</p> <p>1) Leaf: simple leaf, types of compound leaves. Incisions of leaf venation, phyllotaxy, types of stipules, leaf apex, leaf margin, leaf base, leaf shapes. Modifications of leaf: spine, tendril, hooks, phyllode, pitcher, <i>Drosera</i> or insectivorous plants.</p> <p>2) Inflorescence: Racemose: simple raceme, spike, catkin, spadix, panicle. Cymose: monochasial, dichasial, polychasial. Compound: corymb, umbel, cyathium, capitulum, verticillaster, hypanthodium.</p> <p>3) Study of following families: Malvaceae, Amaryllidaceae.</p>
6.	March	15	<p>PAPER II : UNIT - III</p> <p>MEDICINAL BOTANY</p> <p>1) Concept of primary and secondary metabolites, difference between primary and secondary metabolites.</p> <p>2) Grandma's pouch: Following plants have to be studied with respect to botanical source, part of the plant used, active constituents present and medicinal uses: <i>Oscimum sanctum</i>, <i>Adathoda vasica</i>, <i>Zinziber officinale</i>, <i>Curcuma longa</i>, <i>Santalum album</i>, <i>Aloe vera</i>.</p>


 Subject Teacher
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 Head of the Department


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SES's

Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan | Academic Year : 2013-14

Name of the Faculty :- Dr. Usha Sainger

Class :- F.Y B.Sc Plain Semester- II

Sub :- Botany

Department : Botany

Sr. No.	Month	Available Periods	Topic/ SubTopic to be taught
1.	December	15	PAPER I : UNIT - I PTERIDOPHYTES 1) Structure life cycle, systematic position and alternation of generations in Nephrolepis. GYMNOSPERMS 1) Structure life cycle systematic position and alternation of generations in Cycas. 2) Economic importance of Gymnosperms
2.	December / January	15	PAPER II : UNIT - I ENVIRONMENTAL BOTANY 1) ECOSYSTEMS : Structure, functions and types of ecosystems; Productivity in an Ecosystem (Terrestrial/ Pond). 2) APPLIED ECOLOGY : Environmental Biotechnology- Bioremediation. Principles of conservation. Ex Situ and In Situ.
3.	January	15	PAPER I : UNIT - II ANATOMY

			<ol style="list-style-type: none"> 1) Tissue Systems in plants: Introduction to various tissue systems in plants: Epidermal tissue system, epidermal outgrowths, stomata (typical dicot and monocot stomata). 2) Study of the primary structure of dicot and monocot root, stem and leaf
4.	January / February	15	PAPER II : UNIT - II MOLECULAR BIOLOGY <ol style="list-style-type: none"> 1) <i>DNA- THE GENETIC MATERIAL</i> : DNA structure and replication(prokaryotic and eukaryotic). 2) <i>ENZYMES IN GENE CLONING</i> : Endonucleases, Exonucleases, Ligases. 3) <i>CLONING VECTORS</i> : Plasmid (pBR322) , Phage, Cosmid.
5.	February	15	PAPER I : UNIT - III ANGIOSPERMS <ol style="list-style-type: none"> 1) Bentham and Hooker's system of classification up to orders with respect to the following prescribed families: <ul style="list-style-type: none"> o Leguminosae (Papilionaceae, Caesalpiniae and Mimosae). o Asteraceae o Solanaceae o Amaryllidaceae o Malvaceae
6.	March	15	PAPER II : UNIT - III CURRENT TRENDS IN PLANT SCIENCES <ol style="list-style-type: none"> 1) <i>HERBAL COSMETICS IN SKIN CARE</i> – Concepts and applications, present status and scope : Structure of Human Skin. 2) <i>AROMATHERAPY</i>- Concepts and applications, present status and scope. 3) <i>HORTICULTURE</i>- Definition, branches, present status and scope. 4) <i>FORESTRY</i>- Definition, branches, present status and

			scope Minor Products From Forests: Gums, Resins, shellac, Tendu leaves.
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Usha

Subject Teacher
Dr. Usha Sainger

Usha

Head of the Department

S. C. Lahupachang

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Tal. - Panvel, Dist. - Raigad.
Principal
Dr. S.C. Lahupachang



SRS's

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalambohi.

Teaching Plan - Academic Year - 2020-21

Name of the Faculty - Dr. Usha Sainger


Class :- F.Y.B.Sc Plain Semester- II


Sub :- Botany


Department : Botany

Sr. No.	Month	Available Periods	Topic/ SubTopic to be taught
1.	February	11	PAPER I : UNIT - I PTERIDOPHYTES 1) Structure life cycle, systematic position and alternation of generations in Nephrolepis. External morphology, internal morphology, asexual reproduction, development of gametophyte (prothallus). 2) Stele evolution. <ul style="list-style-type: none">• Most primitive type of steles.• Advanced type of steles.• More advanced type of steles.• Most / highly advanced type of steles.
2.	February/March	12	PAPER II : UNIT - I ANATOMY 1) Types of simple permanent tissue. 2) Complex permanent tissue. 3) Primary structure of dicot and monocot root, stem and leaf. 4) Epidermal tissue system: types of hair, monocot and dicot stomata. 5) T.S. of dicot and monocot roots, stem and leaves.
3.	March	12	PAPER I : UNIT - II GYMNOSPERMS 1) Structure life cycle systematic position and alternation

			<p>of generations in Cycas.</p> <p>2) External and internal morphology of sporophyte, reproduction</p> <p>3) Economic importance of Gymnosperms.</p>
4.	March	10	<p>PAPER II : UNIT - II</p> <p>PHYSIOLOGY</p> <p>1) Photosynthesis: Light reactions, photolysis of water, photophosphorylation (cyclic and non cyclic), carbon fixation phase (C3, C4 and CAM pathways).</p>
5.	April	12	<p>PAPER I : UNIT - III</p> <p>ANGIOSPERMS</p> <p>1) Leaf: simple leaf, types of compound leaves, Incisions of leaf venation, phyllotaxy, types of stipules, leaf apex, leaf margin, leaf base, leaf shapes. Modifications of leaf: spine, tendril, hooks, phyllode, pitcher, Drosera or insectivorous plants</p> <p>2) Inflorescence: Racemose: simple raceme, spike, catkin, spadix, panicle. Cymose: monochasial, dichasial, polychasial. Compound: corymb, umbel, cyathium, capitulum, verticillaster, hypanthodium.</p> <p>3) Study of following families: Malvaceae, Amaryllidaceae</p>
6.	April	10	<p>PAPER II : UNIT - III</p> <p>MEDICINAL BOTANY</p> <p>1) Concept of primary and secondary metabolites, difference between primary and secondary metabolites.</p> <p>2) Grandma's pouch: Following plants have to be studied with respect to botanical source, part of the plant used, active constituents present and medicinal uses: <i>Oscimum sanctum</i>, <i>Adathoda vasica</i>, <i>Zinziber officinale</i>, <i>Curcuma longa</i>, <i>Santalum album</i>, <i>Aloe vera</i>.</p>


 Subject Teacher
 Dr. Usha Sainger


 Head of the Department


 Principal
 Dr. S.C. Lahapachang



PRINCIPAL
 SES'S S. M. Dadasaheb Limaye
 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

SES's

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamnoli.
Teaching Plan : Academic Year : 2020-21

Name of the Faculty : - Dr. Usha Sainger

Class :- S.Y B.Sc.

Sub :- Foundation Course Semester III

Department : Science

Sr. No.	Month	Available Period	Topic/ SubTopic to be taught
1.	August	12	MODULE I- HUMAN RIGHTS PROVISIONS, VIOLATION AND REDRESSAL: A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanism Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms B. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. C. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms. D. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms

2.	September	11	MODULE II: DEALING WITH ENVIRONMENTAL CONCERNS <ul style="list-style-type: none"> A. Threats to the environment arising from extinction, loss of habitat, degradation of environment, pollution, climate change. B. Some locally relevant case studies of environmental disasters. C. Concept of disasters and general effect of disasters on human life, physical, psychological, economic and social. D. Dealing with disasters - factors to be considered in prevention , mitigation (relief and rehabilitation) and disaster preparedness. E. Human rights issues in addressing disasters - Issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation.
3.	October	11	MODULE III - SCIENCE AND TECHNOLOGY: <ul style="list-style-type: none"> A) Development of science- The ancient cultures, the classical era, the middle ages, renaissance, the age of reason and enlightenment. B) Nature of science- It's principles and characteristics, science as empirical, practical, theoretical, validated knowledge. C) Science and scientific- temper, significance of observation and experimentation, empirical explanation and objectivity, scientific temper as a fundamental duty of the Indian citizens. D) Science and superstition- the role of science in exploding myths , blind beliefs, and prejudices, role of science and scientific temper in promoting tolerance and harmony in social groups. E) Science in everyday life- technology, it's meaning and role in development, interrelation and distinction between science and technology.

4.	October / November	11	<p>UNIT IV - SOFT SKILLS FOR INTERPERSONAL COMMUNICATION:</p> <p>A. I) Effective Listening - Importance and Features.</p> <p>II) Verbal and Non-Verbal Communication; Public-Speaking and Presentation Skills.</p> <p>III) Barriers to Effective Communication; Importance of Self-Awareness and Body Language.</p> <p>B. I) Formal and Informal Communication - Purpose and types,</p> <p>II) Writing Formal Applications, Statement of Purpose (SOP) and Resume.</p> <p>III) Preparing for Group Discussions, Interviews and Presentations.</p> <p>C) I) Leadership skills and self improvement - Characteristics of self improvement.</p> <p>II) Styles of leadership and team building</p>
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Subject Teacher

Usha

Dr. Usha Sainger

Usha

HOD



S.C. Lahupachang
Principal
Principal
SES'S (A) - Lashab Limaya
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Tal.- Panvel, Dist. - Raigad.
Dr. S.C. Lahupachang

SES's

Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce, and Science College,
Kalambohi

Teaching Plan

Academic Year :2020-2021

Name of the Faculty :- Dr. Usha R. Sanger

Class :- S.Y B.Sc.

Sub :- Foundation Course

Semester:- IV

Department : Science

SR. No.	Month	Available Periods	Topic/Sub-topic to be taught
1	February	12	<p>Module 1 Significant, contemporary Rights of Citizens.</p> <p>A.Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements.</p> <p>B. Right to Information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories.</p> <p>C.Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure to file a PIL; some landmark cases.</p> <p>A. Citizens' Charters, Public Service Guarantee Acts.</p>
2	February / March	11	<p>Module 2 Approaches to understanding Ecology</p> <p>Understanding approaches to ecology-</p>

			<p>Anthropocentrism, Biocentrism and Eco centrism, Ecofeminism and Deep Ecology,</p> <p>B. Environmental Principles-1: the sustainability principle; the polluter pays principle; the precautionary principle</p> <p>C. Environmental Principles-2: the equity principle; human rights principles; the participation principle.</p>
3	March	13	<p>Module 3 Part A: Some Significant Modern Technologies, Features and Applications:</p> <p>i. Laser Technology- Light Amplification by Stimulated Emission of Radiation; use of laser in remote sensing, GIS/GPS mapping, medical use.</p> <p>ii. Satellite Technology- various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.</p> <p>iii. Information and Communication Technology- convergence of various technologies like satellite, computer and digital in the information revolution of today's society.</p> <p>iv. Biotechnology and Genetic engineering- applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life.</p> <p>v. Nanotechnology- definition: the study, control and application of phenomena and materials at length scales below 100 nm; uses in medicine, military intelligence and consumer products</p> <p>Part B: Issues of Control, Access and Misuse of</p>

			Technology:
4	March/ April	13	<p>Module 4 Introduction to Competitive Examinations</p> <p>Part A. Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres:</p> <p>i. Examinations conducted for entry into professional courses - Graduate Record Examinations (GRE), Graduate Management Admission Test (GMAT), Common Admission Test (CAT) and Scholastic Aptitude Test (SAT)</p> <p>ii. Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission (SSC), State Public Service Commissions, Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession.</p> <p>Part B. Soft skills required for competitive examinations</p> <p>i. Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking</p> <p>ii. Motivation: Concept, Theories and Types of Motivation</p> <p>iii Goal-Setting: Types of Goals, SMART Goals, Stephen Covey's concept of human endowment</p> <p>iv. Time Management: Effective Strategies for Time Management</p> <p>v. Writing Skills: Paragraph Writing, Report Writing, Filing an application under the RTI Act, Consumer Grievance Letter.</p>

Usha
Subject Teacher
 Dr. Usha Sainger

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Teaching Plan: Academic Year -2020-21

Name of the Faculty : - Aniket P. Gaikwad

Class: - F.Y.BSC (chemistry)

Sub: - Organic Chemistry

Department: CHEMISTRY

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	SEP	<p>2L</p> <p>2L</p>	<p>Paper I Basics of Organic Chemistry</p> <p>3.1 Classification and Nomenclature of Organic Compounds Review of basic rules of IUPAC nomenclature. Nomenclature of mono and bi-functional aliphatic compounds on the basis of priority order of the following classes of compounds: alkanes, alkenes, alkynes, haloalkanes, alcohols, ethers, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives (acid halides, esters, anhydrides, amides), nitro compounds, nitriles and amines; including their cyclic analogues.</p> <p>3.2 Bonding and Structure of organic compounds Hybridization: sp^3, sp^2, sp hybridization of carbon and nitrogen; sp^3 and sp^2 hybridizations of oxygen in Organic compounds (alcohol, ether, aldehyde, ketone, carboxylic acid, ester, cyanide, amine and amide)</p>
2.	OCT	<p>2L</p> <p>4L</p> <p>2L</p>	<p>Overlap of atomic orbitals: Overlaps of atomic orbitals to form sigma and pi bonds, shapes of organic molecules. Shapes of molecules; Influence of hybridization on bond properties (as applicable to ethane, ethene, ethyne)</p> <p>3.3 Fundamentals of organic reaction mechanism Electronic Effects: Inductive, electromeric, resonance and mesomeric effects, hyperconjugation and their applications; Dipole moment; Organic acids and bases; their relative strengths. Bond fission: Homolytic and Heterolytic fission with suitable examples. Electrophiles and Nucleophiles;</p>

			<p>Nucleophilicity and basicity: Types (primary, secondary, tertiary, allyl, benzyl), shape and their relative stability of reactive intermediates: Carbocations, Carbanions and Free radicals.</p> <p>Introduction to types of organic reactions: Addition, Elimination and Substitution reaction. (With one example of each)</p>
3.	NOV-DEC	15L	<p>Paper II</p> <p>Stereochemistry I</p> <p>Fischer Projection, Newman and Sawhorse Projection Formulas (of erythro, three isomers of tartaric acid and 2,3 dichlorobutane) and their interconversions; Geometrical isomerism in alkenes and cycloalkanes: cis-trans and syn-anti isomerism E/Z notations with C.I.P rules. Optical Isomerism: Optical Activity, Specific Rotation, Chirality/Asymmetry, Enantiomers, Molecules with two similar and dissimilar chiral-centres, Diastereoisomers, meso structures, racemic mixture and resolution (methods of resolution not expected). Relative and absolute configuration: D/L and R/S designations. Conformation analysis of alkanes (ethane, propane and n-butane); Relative stability with energy diagrams.</p>
SEMESTER - II			
4.	JAN	1L	<p>PAPER-I</p> <p>Chemistry of Aliphatic Hydrocarbons</p> <p>3.1 Carbon-Carbon sigma bonds Chemistry of alkanes: Formation of alkanes, Wurtz Reaction</p>
5.	FEB	2L 6L	<p>Wurtz-Fittig Reactions, Free radical substitutions: Halogenation -relative reactivity and selectivity.</p> <p>3.2 Carbon-Carbon pi bonds: Formation of alkenes and alkynes by elimination reactions: Mechanism of E1, E2, E1cb reactions. Saytzeff and Hofmann eliminations. Reactions of alkenes: Electrophilic additions their mechanisms (Markownikoff/ Anti Markownikoff addition), Mechanism of oxymercuration-demercuration, hydroboration-oxidation, ozonolysis, reduction(catalytic and chemical), syn and anti-hydroxylation (oxidation). 1, 2-and 1, 4- addition</p>

			reactions in conjugated dienes and, Diels-Alder reaction; Allylic and benzylic bromination using N-bromosuccinimide and mechanism, e.g. propene, 1-butene, toluene, ethylbenzene.
6.	MAR	3L	Reactions of alkynes; Acidity, Electrophilic and Nucleophilic additions. Hydration to form carbonyl compounds, Alkylation of terminal alkynes.
		3L	PAPER-II 3.1 Stereochemistry-II: Cycloalkanes and Conformational Analysis
		2L	Types of cycloalkanes and their relative stability, Baeyer strain theory Conformation analysis of cyclohexane: Chair, Boat and Twist boat forms; Relative stability with energy.
7.	APR	10L	3.2 Aromatic Hydrocarbons: Aromaticity: Hückel's rule anti-aromaticity, aromatic character of arenes, cyclic carbocations/carbanions and heterocyclic compounds with suitable examples. Electrophilic aromatic substitution: halogenation, nitration, sulphonation and Friedel-Craft alkylation/acylation with their mechanism. , Hammond's postulate, Directing effects of the groups.



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Teaching Plan: Academic Year: 2020-21

Name of the Faculty: - Aniket P. Gaikwad

Class: - S.Y.Bac (chemistry)

Sub: - Organic Chemistry

Department: CHEMISTRY

Sr. No	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III			
1.	AUG	4L 2L 2L	<p align="center">Paper -I</p> <p>3.1.1. Reactions and reactivity of halogenated hydrocarbons</p> <p>3.1.1. Alkyl halides: Nucleophilic substitution reactions: S_N1, S_N2 and S_Ni mechanisms with stereochemical aspects and factors affecting nucleophilic substitution reactions-nature of substrate, solvent, nucleophilic reagent and leaving group.</p> <p>3.1.2. Aryl halides: Reactivity of aryl halides towards nucleophilic substitution reactions. Nucleophilic aromatic substitution (S_NAr) addition-elimination mechanism and benzyne mechanism.</p>
2.	SEP	4L 6L	<p>3.1.2. Organomagnesium and organolithium compounds: Nomenclature, nature, type and reactivity of carbon-metal bond. Preparation using alkyl / aryl halide. Structure, stability and reactions with compounds containing acidic hydrogen, carbonyl compounds, CO_2, cyanides and epoxides.</p> <p>3.2 Alcohols, phenols and epoxides:</p> <p>3.2.1. Alcohols: Nomenclature, Preparation: Hydration of alkenes, hydrolysis of alkyl halides, reduction of aldehydes and ketones, using Grignard reagent. Properties: Hydrogen bonding, types and effect of hydrogen bonding on different properties.</p>

			Acidity of alcohols, Reactions of alcohols.
1.	INT	9).	3.2.2. Phenols: Preparation, physical properties and acidic character, Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols.
		11).	3.2.3. Epoxides: Nomenclature, methods of preparation and reactions of epoxides: reactivity, ring opening reactions by nucleophiles (a) in acidic conditions: hydrolysis, reaction with halogen halide, alcohol, hydrogen cyanide. (b) in neutral or basic conditions: ammonia, amines, Grignard reagents, alkoxides.
4.	NOV	16).	Carbonyl Compounds: 3.1 Nomenclature of aliphatic, alicyclic and aromatic carbonyl compounds. Structure, reactivity of aldehydes and ketones and methods of preparation; Oxidation of primary and secondary alcohols using PCC, hydration of alkynes, action of Grignard reagent on esters, Rosenmund reduction, Gattermann – Koch formylation and Friedel Craft acylation of arenes 3.2 General mechanism of nucleophilic addition, and acid catalyzed nucleophilic addition reactions. 3.3 Reactions of aldehydes and ketones with NaHSO_3 , HCN , RMgX , alcohol, amine, phenyl hydrazine, 2, 4-Dinitrophenyl hydrazine, LiAlH_4 and NaBH_4 . 3.4 Mechanisms of following reactions: Benzoin condensation, Knoevenagel condensation, Claisen-Schmidt and Cannizzaro reaction. 3.5 Keto-enol tautomerism: Mechanism of acid and base catalysed enolization 3.6 Active methylene compounds: Acetylacetone, ethyl acetoacetate diethyl malonate, stabilised enols. Reactions of Acetylacetone and ethyl acetoacetate (alkylation, conversion to ketone, mono- and dicarboxylic acid)
SEMESTER - IV			

4.	JAN	12L	<p>PAPER-I</p> <p>3.1 Carboxylic Acids and their Derivatives</p> <p>3.1.1. Nomenclature, structure and physical properties, acidity of carboxylic acids, effects of substituents on acid strength of aliphatic and aromatic carboxylic acids. 3.1.2. Preparation of carboxylic acids: oxidation of alcohols and alkyl benzenes, carbonation of Grignard and hydrolysis of nitriles. 3.1.3. Reactions: Acidity, salt formation, decarboxylation, Reduction of carboxylic acids with LiAlH_4, diborane, Hell-Volhard-Zelinsky reaction, Conversion of carboxylic acid to acid chlorides, esters, amides and acid anhydrides and their relative reactivity. 3.1.4. Mechanism of nucleophilic acyl substitution and acid-catalysed nucleophilic acyl substitution. Interconversion of acid derivatives by nucleophilic acyl substitution. 3.1.5. Mechanism of Claisen condensation and Dieckmann condensation.</p>
5.	FEB	4L	<p>3.2 Sulphonic acids</p> <p>Nomenclature, preparation of aromatic sulphonic acids by sulphonation of benzene (with mechanism), toluene and naphthalene. Reactions: Acidity of arene sulfonic acid, Comparative acidity of carboxylic acid and sulfonic acids. Salt formation, desulphonation. Reaction with alcohol, phosphorus pentachloride, IPSO substitution.</p>

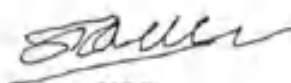
			<p align="center">PAPER-II</p> <p>Nitrogen containing compounds and heterocyclic compounds:</p> <p>3.1 Amines Nomenclature, effect of substituent on basicity of aliphatic and aromatic amines; 3.1.1. Preparation: Reduction of aromatic nitro compounds using catalytic hydrogenation, chemical reduction using Fe-HCl, Sn-HCl, Zn-acetic acid, reduction of nitriles, ammonolysis of halides, reductive amination, Hofmann bromamide reaction. 3.1.2. Reactions- Salt Formation, N-acylation, N-alkylation, Hofmann's exhaustive methylation (HEM), Hofmann-elimination reaction, reaction with nitrous acid, carbylamine reaction, Electrophilic substitution in aromatic amines: bromination, nitration and sulphonation.</p>
6.	MAR	8L	<p>3.2 Diazonium Salts Preparation and their reactions/synthetic application - Sandmeyer reaction, Gattermann reaction, Gomberg reaction, Replacement of diazo group by -H, -OH. Azo coupling with phenols, naphthols and aromatic amines, reduction of diazonium salt to aryl hydrazine and hydrazobenzene</p>
7.	APR	12L	<p>3.3 Heterocyclic Compounds 3.3.1. Classification, nomenclature, electronic structure, aromaticity in 5-membered and 6-membered rings containing one heteroatom; 3.3.2. Synthesis of Furan, Pyrrole (Pictet-Knorr synthesis, Knorr pyrrole synthesis, and Hantzsch synthesis), Thiophene, Pyridine (Hantzsch synthesis), 3.3.3. Reactivity of furan, pyrrole and thiophene towards electrophilic substitution reactions on the basis of stability of intermediate and of pyridine on the basis of electron distribution. Reactivity of pyridine towards nucleophilic substitution on the basis of electron distribution. 3.3.4. Reactions of furan, pyrrole and thiophene: halogenation, nitration, sulphonation, Vilsmeier-Hawok reaction, Friedel-Crafts reaction. Furan: Diels-Alder reaction, Ring opening. Pyrrole: Acidity and basicity of pyrrole. Comparison of basicity of pyrrole and pyrrolidine. 3.3.5. Pyridine: Basicity. Comparison of basicity of pyridine, pyrrole and piperidine.</p>

			Sulphonation of pyridine (with and without catalyst), reduction and action of sodamide (Chichibabin reaction).
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Sr. No	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	AUG	15L	<p>Subject: Organic chemistry (SEM - V)</p> <p>Unit II</p> <p>2.1 Stereochemistry I 6L 2.1.1 Molecular chirality and elements of symmetry: Mirror plane symmetry, inversion center, rotation-reflection (alternating) axis. 2.1.2 Chirality of compounds without a stereogenic centre: cumulenes and biphenyls.</p> <p>2.2 Agrochemicals 4L 2.2.1 General introduction & scope, meaning & examples of insecticides, herbicides, fungicides, rodenticides, pesticides, plant growth regulators. 2.2.2 Advantages & disadvantages of agrochemical 2.2.3 Synthesis & application of IAA (indole Acetic acid) & Endosulphan, 2.2.4 Biopesticides – Neem oil & Karanj oil.</p> <p>2.3 Heterocyclic chemistry: 6L 2.3.1 Reactivity of pyridine-N-oxide, quinoline and iso-quinoline. 2.3.2 Preparation of pyridine-N-oxide, quinoline (Skraup synthesis) and iso-quinoline (Bischler-Napieralski synthesis). 2.3.3 Reactions of pyridine-N-oxide: halogenation, nitration and reaction with $\text{NaNH}_2/\text{liq.NH}_3$, $n\text{-BuLi}$. 2.3.4 Reactions of quinoline and isoquinoline; oxidation, reduction, nitration, halogenation and reaction with $\text{NaNH}_2/\text{liq.NH}_3$, $n\text{-BuLi}$.</p>
2.	SEP	12L	<p>Unit III</p> <p>3.1 IUPAC 8L IUPAC nomenclature of the following classes of compounds (including compounds upto 2 substituents / functional groups):</p>

		<p>3.1.1 Bicyclic compounds: spiro, fused and bridged (upto 11 carbon atoms) saturated and unsaturated compounds.</p> <p>3.1.2 Biphenyls</p> <p>3.1.3 Cumulenes with upto 3 double bonds</p> <p>3.1.4 Quinolines and lanquinolines</p> <p>3.2 Organic Synthesis 10L</p> <p>3.2.1 Introduction: Linear and convergent syntheses, criteria for an ideal synthesis, concept of chemoselectivity and regioselectivity with examples, calculation of yields.</p> <p>3.2.2 Multicomponent Synthesis: Mannich reaction and Biginelli reaction. Synthesis with examples (no mechanism)</p> <p>3.2.3 Green synthesis: Introduction: Twelve principles, concept of atom economy and E-factor, calculations and their significance, numerical examples. i) Green reagents: dimethyl carbonate. ii) Green starting materials : D-glucose iii) Green solvents : supercritical CO₂ iv) Green catalysts: Bio catalysts.</p> <p>3.2.4 Planning of organic syntheses i) m-nitrophenol ii) o-chlorobenzoic acid iii) Alcohols (primary / secondary / tertiary) using Grignard reagents. iv) alkanes (using organolithium compounds)</p>
3.	OCT	<p style="text-align: center;">Unit I</p> <p>1.1 Mechanism of organic reactions 12L</p> <p>1.1.1 The basic terms & concepts, bond fission, reaction intermediates electrophiles & nucleophiles, Ligand, Base Electrophilicity vs. acidity & nucleophilicity vs basicity.</p> <p>1.1.2 Neighbouring group participation in nucleophilic substitution reactions: participation of lone pair of electrons, kinetics and stereochemical outcome. 1.1.3 Acyl nucleophilic substitution (Tetrahedral mechanism): Acid catalyzed esterification of carboxylic acids (A_{AC}2) and base promoted hydrolysis of esters (B_{AC}2).</p> <p>1.1.4 Pericyclic reactions, classification and nomenclature</p> <p>1.1.4.1 Electrocyclic reactions (ring opening and ring closing), cycloaddition, sigma tropic rearrangement, group transfer reactions, chelotropic reaction (definition and one example of each type)</p> <p>1.1.4.2 Pyrolytic elimination: Cope, Chugaev, pyrolysis of</p>

			<p>acetylenes</p> <p>1.2 Photochemistry 5L</p> <p>1.2.1 Introduction: Difference between thermal and photochemical reactions. Jablonski diagram, singlet and triplet states, allowed and forbidden transitions, fate of excited molecules, photosensitization.</p> <p>1.2.2 Photochemical reactions of olefins: photoisomerisation, photochemical rearrangement of 1,4-dienes (di-π methane)</p> <p>1.2.3 Photochemistry of carbonyl compounds: Norrish I, Norrish II cleavages. Photoreduction (e.g. benzophenone to benzopinacol)</p>
4.	NOV	15L	<p style="text-align: center;">Unit IV</p> <p>4.1 Spectroscopy I 5L</p> <p>4.1.1 Introduction: Electromagnetic spectrum, units of wavelength and frequency</p> <p>4.1.2 UV – Visible spectroscopy: Basic theory, solvents, nature of UV-Visible spectrum, concept of chromophore, auxochrome, bathochromic and hypsochromic shifts, hyperchromic and hypochromic effects, chromophore-chromophore and chromophore-auxochrome interactions.</p> <p>4.1.3 Mass spectrometry: Basic theory. Nature of mass spectrum. General rules of fragmentation. Importance of molecular ion peak, isotopic peaks, base peak, nitrogen rule, rule of 13 for determination of empirical formula and molecular formula. Fragmentation of alkanes and aliphatic carbonyl compounds.</p> <p>4.2 Natural Products 10L</p> <p>4.2.1. Terpenoids: Introduction, isoprene rule, special isoprene rule and the gem-dialkyl rule.</p> <p>4.2.2 Citral:</p> <ol style="list-style-type: none"> Structural determination of citral. Synthesis of citral from methyl heptenone Isomerism in citral. (cis and trans form). <p>4.2.3. Alkaloids: Introduction and occurrence. Hoffman's exhaustive methylation and degradation in: simple open chain and N – substituted monocyclic amines.</p> <p>4.2.4 Nicotine:</p> <ol style="list-style-type: none"> Structural determination of nicotine. (Pinner's work.

			<p>included)</p> <p>b) Synthesis of nicotine from nicotinic acid</p> <p>c) Harmful effects of nicotine.</p> <p>4.2.5 Hormones:</p> <p>Introduction, structure of adrenaline (epinephrine), physiological action of adrenaline.</p> <p>Synthesis of adrenaline from</p> <p>a) Catechol</p> <p>b) p-hydroxybenzaldehyde(Or's synthesis)</p>
SEMESTER - VI			

4.	JAN	15L	<p style="text-align: right;">Unit IV</p> <p>4.1 Polymer 8L</p> <p>4.1.1 Introduction: terms monomer, polymer, homopolymer, copolymer, thermoplastics and thermosets.</p> <p>4.1.2 Addition polymers: polyethylene, polypropylene, teflon, polystyrene, PVC, uses.</p> <p>4.1.3 Condensation polymers: polyesters, polyamides, polyurethanes, polycarbonates, phenol formaldehyde resins. Uses</p> <p>4.1.4 Stereochemistry of polymers: Tacticity, Mechanism of stereochemical control of polymerization using Ziegler Natta catalysts.</p> <p>4.1.5 Natural and synthetic rubbers: Polymerisation of isoprene: 1,2 & 1,4 addition (cis and trans), Styrene butadiene copolymer.</p> <p>4.1.6 Additives to polymers: Plasticisers, stabilizers and fillers.</p> <p>4.1.7 Biodegradable polymers: Classification and uses. Poly(lactic acid) structure, properties and use for packaging and medical purposes.</p> <p>4.2 Catalysts and Reagents 7L</p> <p>Study of the following catalysts and reagents with respect to functional group transformations and selectivity (no mechanism).</p> <p>4.2.1 Catalysts: Catalysts for hydrogenation:</p> <ol style="list-style-type: none"> Raney Nickel Pt and PtO_2 ($\text{C}=\text{C}$, CN, NO_2, aromatic ring) Pd/C: $\text{C}=\text{C}$, $\text{COCl} \rightarrow \text{CHO}$ (Rosenmund) Lindlar catalyst: alkynes <p>4.2.2 Reagents:</p> <ol style="list-style-type: none"> LiAlH_4 (reduction of CO, COOR, CN, NO_2) NaBH_4 (reduction of CO) SeO_2 (oxidation of CH_2 alpha to CO) mCPBA (epoxidation of $\text{C}=\text{C}$) NBS (allylic and benzylic bromination)
5.	FEB	15L	<p style="text-align: right;">Unit II</p> <p>2.1 Molecular Rearrangement 5L</p> <p>Mechanism of the following rearrangements with examples and stereochemistry wherever applicable.</p> <p>2.1.1 Migration to the electron deficient carbon: Pinacol-</p>

			pinacolone rearrangement. 2.1.2 Migration to the electron deficient nitrogen: Beckmann rearrangement. 2.1.3 Migration involving a carbanion :Favorski rearrangement. 2.1.4 Name reactions: Michael addition, Wittig reaction. 2.2 Carbohydrates 10L 2.2.1 Introduction: classification, reducing and non-reducing sugars, DL Notation 2.2.2 Structures of monosaccharides: Fischer projection (4-6 carbon monosaccharides) and Haworth formula (furanose and pyranose forms of pentoses and hexoses) Interconversion: open chain and Haworth forms of monosaccharides with 5 and 6 carbons.Chain conformation with stereochemistry of D-glucose, Stability of chair form of D-glucose 2.2.3 Stereoisomers of D-glucose: enantiomer, diastereomers, anomers, epimers. 2.2.4 Mutarotation in D-glucose with mechanism 2.2.5 Chain lengthening & shortening reactions: Modified Kiliani-Fischer synthesis (D-arabinose to D-glucose and D-mannose), Wohl method (D-glucose to D-arabinose) 2.2.6 Reactions of D-glucose and D-fructose: (a) Osazone formation (b) reduction: H_2/Ni , NaBH_4 (c) oxidation: bromine water, HNO_3 , HIO_4 (d) acetylation (e) methylation (d) and (e) with cyclic pyranose forms 2.2.7 Glycosides: general structure
6.	MAR	15L	Unit I 1.1 Stereochemistry II 15L 1.1.1 Stereoselectivity and stereospecificity : Idea of enantioselectivity (ee) and diastereoselectivity (de), Topicity : enantiotopic and diastereotopic atoms, groups and faces. 1.1.2 Stereochemistry of – i) Substitution reactions : $\text{S}_{\text{N}}2$ (reaction of alcohol with thionyl chloride)

		<p>ii) Elimination reactions: E₂-Base induced dehydrohalogenation of 1-bromo-1,2-diphenylpropane.</p> <p>iii) Addition reactions to olefins:</p> <ol style="list-style-type: none"> bromination (electrophilic anti addition) syn hydroxylation with O₃O₄ and KMnO₄ epoxidation followed by hydrolysis.
		<p>1.2 Amino acids & Proteins 5L</p> <p>1.2.1 α-Amino acids: General Structure, configuration, and classification based on structure and nutrition. Properties: pH dependency of ionic structure, isoelectric point and zwitter ion. Methods of preparations: Strecker synthesis, amidomalonic synthesis, Erlenmeyer azalactone synthesis.</p> <p>1.2.2 Polypeptides and Proteins: Polypeptides: Peptide bond. Nomenclature and representation of polypeptides (di- and tri-peptides) with examples.</p>
7.	APR	<p style="text-align: center;">Unit III</p> <p>3.1 Spectroscopy II 10L</p> <p>3.1.1 IR Spectroscopy: Basic theory, nature of IR spectrum, selection rule, fingerprint region.</p> <p>3.1.2 PMR Spectroscopy: Basic theory of NMR, nature of PMR spectrum, chemical shift (δ unit), standard for PMR, solvents used. Factors affecting chemical shift: (1) inductive effect (2) anisotropic effect (with reference to C=C, C≡C, C=O and benzene ring). Spin-spin coupling and coupling constant. Application of deuterium exchange. Application of PMR in structure determination.</p> <p>3.1.3 Spectral characteristics of following classes of organic compounds, including benzene and monosubstituted benzenes, with respect to IR and PMR: (1) alkanes (2) alkenes (3) alkynes (4) haloalkanes (5) alcohols (6) carbonyl compounds (7) ethers (8) amines (broad regions characteristic of different groups are expected). Problems of structure elucidation of simple organic compounds using individual or combined use of UV-Vis, IR, Mass and NMR spectroscopic technique are expected. (Index of hydrogen deficiency should be the first step in solving the problems).</p>

			3.2 Nucleic Acids 5L Controlled hydrolysis of nucleic acids. sugars and bases in nucleic acids. Structures of nucleosides and nucleotides in DNA and RNA. Structures of nucleic acids (DNA and RNA) including base pairing merrified solid phase nucleotide synthesis.
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SCIENCE COLLEGE, KALAMBOLI

Teaching Plan

Academic Year 2020 -2021

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class- F.Y.B.Sc. Chemistry

Semester : I

Name of the Professor : Bhagat V.S.

Paper -I (UNIT.II)

Sr.No.	Month	Period/ Lecture s	Topic/Sub topic to be taught
SEMESTER I - Paper I			
1	Sep- Oct - 2020	10L	<p>2.1 Atomic structure: (10L) (Qualitative treatment only; it is expected that the learner knows the mathematical statements and understands their physical significance after completing this topic. No derivations of the mathematical equations required)</p> <p>a) Historical perspectives of the atomic structure; Rutherford's Atomic Model, Bohr's theory, its limitations and atomic spectrum of hydrogen atom. Structure of hydrogen atom.</p> <p>Rutherford's Atomic structure Drawbacks Rutherford's Atomic structure Bohr's theory Atomic spectrum of hydrogen atom Limitations of Bohr's Theory Dual Nature of electrons-Particles waves Helsenberg's uncertainty Principle</p> <p>Hydrogenic atoms: 1.Simple principles of quantum mechanics; a)Atomic orbitals</p> <ul style="list-style-type: none"> ▪ Hydrogenic energy levels ▪ Shells, subshells and orbitals

			<ul style="list-style-type: none"> • Electron spin • Radial shapes of orbitals • Radial distribution function • Angular shapes of orbitals <ol style="list-style-type: none"> 1. Many Electron Atoms <ol style="list-style-type: none"> i) Penetration and shielding ii) Effective nuclear charge 2. Aufbau principle
2	Oct-2020	5L	2.2: Periodic Table and periodicity : (5L) Long form of Periodic Table; Classification for elements as main group, transition and inner transition elements; Periodicity in the following properties : Atomic and ionic size; electron gain enthalpy; ionization enthalpy, effective nuclear charge (Slater's rule); electronegativity ; Pauling, Mulliken and Alred Rochow electronegativities (Numerical problems expected, wherever applicable.)

SEMESTER I – Paper II

2.0 Comparative chemistry of Main Group Elements: (15L)

Metallic and non-metallic nature,
oxidation states 1. oxidation states of p-blocks Elements
 2 Oxidation states and Inert pair effect

Electronegativity : 1. Atomic Size
 2. Oxidation state
 3. Hybridization of the central atom
 4. Partial Ionic charge

Anomalous behavior of second period elements

[
 Lithium, Beryllium, Boron, Carbon, Nitrogen, Oxygen, Fluorine
]

Allotropy

Enantiotropy, Monotropy, Dynamic Allotropy

Allotropes of group 13 elements

Allotropes Forms of group 13 elements

			<ul style="list-style-type: none"> • Allotropes of carbon • Allotropes of Silicon • Allotropes of Phosphorus <p>Allotropes Forms of group 16 elements</p> <ul style="list-style-type: none"> • Allotropes of Sulphur • Allotropes of Selenium, Tellurium, and Polonium <p>Catenation (Self Linkage)</p> <p>Diagonal relationship</p> <ul style="list-style-type: none"> • Diagonal relationship between Li and Mg • Diagonal relationship between Be and Al • Diagonal relationship between B and Si
2	Nov-2020	5L	<p>A. Comparative chemistry of carbides, nitrides, oxides and hydroxides of group I and group II elements.</p> <p>B. Some important compounds-</p> <p>NaHCO₃, Na₂CO₃, NaCl, NaOH, CaO, CaCO₃; oxides of carbon, oxides and oxynides of sulphur and nitrogen with respect to environmental aspects.</p>

CHEMISTRY LAB: Semester I

1	Sep-Oct-2020		<p>Unit II: Inorganic Chemistry</p> <ol style="list-style-type: none"> 1. Commercial analysis of (any two) <ol style="list-style-type: none"> a) Mineral acid b) Organic acid c) Salt of weak acid and strong base. 2. Titration using double indicator: analysis of solution of Na₂CO₃ and NaHCO₃. 3. Gravimetric analysis <ol style="list-style-type: none"> a) To determine the percent purity of sample of BaSO₄ containing NH₄Cl b) To determine the percent purity of ZnO containing ZnCO₃.
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Subject Teacher

Signature of

H. M. D.

Department of Chemistry

M. D. L. College, Kalamboli

Principal

PRINCIPAL

S. M. Dadarshah Limaye

ACS College

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Head of the dept

SES'S

SHIKSHAN MAHARASHI DADASAHEB LIMAYE ARTS, COMMERCE AND
SCIENCE COLLEGE, KALAMBOLI

Teaching Plan

Academic Year 2020 -2021

Name of the Faculty- Science

Sub- Inorganic Chemistry

Class- F.Y.B.Sc. Chemistry

Semester : II

Name of the Professor : Bhagar V.S.

Sr.No	Month	Period/ Lecture s	Topic/Sub topic to be taught
Paper I : Unit II			
1	Jan-Feb 2020	7	2.1 Concept of Qualitative Analysis: a) Testing of Gaseous Evolutes, Role of Papers impregnated with Reagents in qualitative analysis (with reference to papers impregnated with starch iodide, potassium dichromate, lead acetate, dimethylglyoxime and oxine reagents). b) Precipitation equilibria, effect of common ions, uncommon ions, oxidation states, buffer action, complexing agents on precipitation of ionic compounds. (Balanced chemical equations and numerical problems expected.)
2	Jan - Feb- 2021	8	2.2 Acid Base Theories: Arrhenius, Lowry- Bronsted, Lewis, Solvent - Solute concept of acids and bases, Hard and Soft acids and bases. Applications of HSAB Applications of acid base chemistry in:

			<ul style="list-style-type: none"> i) Understanding organic reactions like Friedel Craft's (acylation/alkylation) reaction ii) Volumetric analysis with special reference to calculation of titration curve involving strong acid and strong base.
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SEMESTER II – Paper II Unit II

1	Feb-2021	7	<p>2.1 : Chemical Bond and Reactivity: Types of chemical bond, comparison between ionic and covalent bonds, polarizability (Fajan's Rule), shapes of molecules, Lewis dot structure, Sidgwick Powell Theory, basic VSEPR theory for AB_n type molecules with and without lone pair of electrons, isoelectronic principles, applications and limitations of VSEPR theory.</p>
2	Mar-2021	8	<p>2.2 : Oxidation Reduction Chemistry:</p> <ul style="list-style-type: none"> a) Reduction potentials b) Redox potentials: half reactions; balancing redox equations. c) Redox stability in water <ul style="list-style-type: none"> i) Latimer and Frost Diagrams ii) pH dependence of redox potentials. d) Applications of redox chemistry <ul style="list-style-type: none"> i) Extraction of elements: (example: isolation of copper by auto reduction) ii) Redox reagents in Volumetric analysis: a) I₂; b) KMnO₄ iii) Titration curves: i) single electron systems (example Co(IV) against Fe(II)); and ii) Multi electron systems as in KMnO₄ against Fe(II))

CHEMISTRY Practical (LAB): Semester II

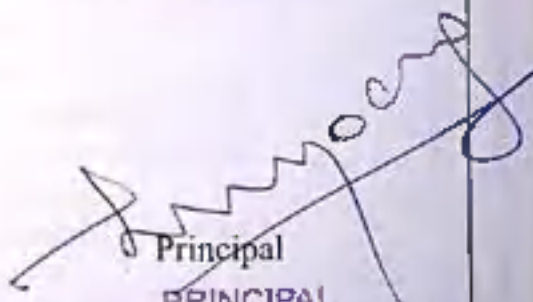
Feb - March 2021		<p>1. Qualitative analysis: (at least 4 mixtures to be analyzed) Semi-micro inorganic qualitative analysis of a sample containing two cations and two anions. Cations (from amongst): Pb^{2+}, Ba^{2+}, Ca^{2+}, Sr^{2+}, Cu^{2+}, Cd^{2+}, Fe^{2+}, Ni^{2+}, Mn^{2+}, Mg^{2+}, Al^{3+}, Cr^{3+}, K^{+}, NH_4^{+} Anions (From amongst): CO_3^{2-}, S^{2-}, SO_3^{2-}, NO_2^{-}, NO_3^{-}, Cl^{-}, Br^{-}, I^{-}, SO_4^{2-}, PO_4^{3-}. (Scheme of analysis should avoid use of sulphide ion in any form for precipitation / separation of cations.)</p> <p>2. Redox Titration: To determine the percentage of copper(II) present in a given sample by titration against a standard aqueous solution of sodium thiosulfate (iodometry titration)</p>
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Subject Teacher


Signature

Head of the dept
Head
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Tal. - Panvel, Dist. - Raigad.

Name of the Faculty: Mrs. ABHIPSA PATNAIK

Class:- S.Y.BSC(Micro)

Sub:- Sem III Introduction to Clinical Microbiology

Sem IV Fermented Foods, Food Sanitation and Microbial Ecology

Department: Microbiology

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III Introduction to Clinical Microbiology			
1.	AUG	15L	Basic Microbiology 1a. Microbial World & you: Microbes in our lives Types of Microorganisms 1b. Morphology and Physiology of Bacteria: Microscopy Staining – monochrome, differential and cytological Shape of Bacteria Bacterial Anatomy- Structure & function Growth and Multiplication of Bacteria Bacterial Growth Curve 1c. Culture Methods Methods of Isolating Pure Cultures Anaerobic Culture Methods (Anaerobic blood agar, Cooked meat media, Thioglycollate medium) 1d. Culture Media and Bacterial Growth Types of Media and examples of media like Nutrient agar, Sabouraud agar, MacConkeys agar. Study of morphological & cultural characteristics. 1e. Bacterial Taxonomy Nomenclature Type Cultures Practical 1. Estimation of total sugar by Anthrone method(Demo) 2. Estimation of reducing sugar by DNSA method 3. Estimation of reducing method by Fehling's method 4. Estimation of protein Biuret method (indirect and direct) Extraction of lipid by Soxhlet method (Demonstration)
2.	SEP-OCT	15L	Common infectious diseases, Epidemiology and public health awareness Part A: Common infectious diseases (10 Lectures) 2a. Skin Infections: Study of structure and functions of skin Study of skin infections caused by <i>Parasitomania</i> , Acne & Measles 2b. Infections of Nervous system Study of structure and functions of nervous system Study of Tetanus & Rabies 2c. Infections of Respiratory systems Study of structure and function of respiratory system Study of pharyngitis, Laryngitis, Sinusitis (learn terms only), Diphtheria and common cold 2d. Infections of Digestive system Study of structure and function of Digestive system Study of Typhoid fever, <i>E. coli</i> gastroenteritis,

			<p>Hepatitis A, Rotavirus and Amoebiasis</p> <p>Part B: Epidemiology and Public Health Awareness (5 Lectures)</p> <p>2e. The Epidemiology of Infectious Diseases and Their Control Epidemiological terminology: Epidemiology, sporadic diseases, endemic diseases, Hyperendemic Diseases, Epidemic Diseases, Index Case, Pandemic Disease, Outbreak</p> <p>2f. The Spread of Infection: Reservoirs of infection - Human reservoir, Animal reservoir, non-living reservoir Transmission of Disease- Contact transmission, Vehicle Transmission and vectors</p> <p>2g. Public Health Measures For Control Of Disease: Control directed against reservoir, Transmission of the pathogens. Immunisation, Quarantine, Surveillance and pathogen eradication</p> <p>Practical</p> <ol style="list-style-type: none"> 1. Isolation and detection of DNA from onion / E.coli 2. Estimation of DNA by DPA method <p>Estimation of RNA by Orcinol method</p>
3.	OCT-NOV	15L	<p>Control of Microorganisms & Safety in Clinical Microbiology</p> <p>3a. Sterilization and disinfection Methods of sterilization: Dry heat: Hot air sterilizers Moist heat: Steaming at 100°C, Autoclave. Gas Sterilization: Ethylene oxide sterilizer, Gas plasma Sterilizing filters Sterilization by radiation</p> <p>3b. Disinfectants: Disinfection of surfaces and spillages Disinfection of safety cabinets Discard jars Disinfection of rooms Disinfection of skin Testing of disinfectants</p> <p>3c. Safety in Clinical Microbiology Chemical safety Fire safety Electrical safety Handling of compressed gases: Exposure control plan: Employee education and orientation, Disposal of hazardous waste, Standard precautions, Engineering controls: Laboratory Environment, Biological safety cabinet, Personal protective equipment, Post exposure control Classification of biologic agents based on hazard</p> <p>Practical Identification of bacteria</p>
SEMESTER – IV Fermented Foods, Food Sanitation and Microbial Ecology			
7.	JAN	15L	<p>Unit I Fermented Foods</p> <p>1a. Microorganisms used in food fermentations: yeasts, molds and lactic acid bacteria</p> <p>1b. Microbiology of fermented food: bread, cheese, idli butter, yogurt, soy products, tea, coffee and cocoa,</p>

			1c. Fermented beverages: beer, wine 1d. Food ingredients of microbial origin: SCP, amino acids, vitamins, colours, nutraceuticals and flavours 1e. Probiotics and intestinal bacteria Practical Problems on bioenergetics to calculate the K_{eq} ; Gibbs energy, enthalpy, etc.
8.	JAN-FEB	15L	Unit II Food Sanitation 2a. Food Sanitation & Hygiene: Water, potable water, Sources of contamination of water, treatment of water, pesticide residue 2b. Food, Food Handling, Food contamination, equipment, Control of insects & Rodents, Practical rules for good sanitation. 2c. Food borne diseases 2d. Toxins from plants, toxins from animals, Mycotoxins, Toxic Agricultural Residues, Poisoning by chemicals, Food poisoning by bacteria, Food infections, other infection. 2e. Food laws and food adulteration 2f. Consumer protection & consumer guidance society Practical 1. Isolation of amylase, protease, lipase producers. 2. Extracellular production of invertase from yeast. 3. Effect of pH, Temp, substrate and enzyme concentration on activity of invertase. Determination of K_m and V_{max} of an enzyme.
9.	FEB-MARCH	15L	Microbial evolution and ecology 3a. Microbial evolution: formation and early history of earth, origin of cellular life, microbial diversification, endosymbiotic origin of eukaryotes 3b. Microbial ecosystems: Principles of microbial ecology, the microbial habitats, fresh water, soil and plant microbial ecosystems, marine microbial ecosystems 3c. Microbial Ecology and its Methods - An Overview Practical 1. Separation and identification of amino acids and sugars by ascending paper chromatography. 2. Sizing Yeast cells 3. Electrophoresis & centrifuge machine [D]



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Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.

Teaching Plan: Academic Year -2020-21

Name of the Faculty: Mrs Roopa Kanaku

Class:- S.Y.BSC(Micro)

Sub: - Sem III Environmental Microbiology

Sem IV Applied Microbiology

Department: Microbiology

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - III Environmental Microbiology			
1.	AUG	15L	Unit I: Air Microbiology 1a. Aeromicrobiology: Important airborne pathogens and toxins, Aerosols, nature of bioaerosols, aeromicrobiological pathway, microbial survival in the air, extramural aeromicrobiology, intramural aeromicrobiology 1b. Sampling Devices for the Collection of Air Samples, Detection of microorganisms on fomites 1c. Air Sanitation
2.	SEP-OCT	15L	Unit II: Fresh Water and Sewage Microbiology Unit II (A) Fresh Water Microbiology 2a. Fresh water environments and micro-organisms found in Springs, rivers and streams, Lakes, marshes and bogs 2b. Potable water: Definition, water purification, water quality standards and pathogens transmitted through water Unit II (B) Sewage Microbiology 2c. Modern Waste Water treatment: Primary, Secondary and Tertiary Treatment 2d. nature of wastewater and Monitoring of waste water treatment process(BOD,COD)
3.	OCT-NOV	15L	Unit III. Soil and Geo Microbiology: 3a. Terrestrial Environment Soil- Definition, Composition, function, Textural triangle Types of soil microorganisms and their activities 3b. Methods of studying soil microorganisms: Sampling, Cultural methods, Physiological methods, Immunological methods, Nucleic acid based methods, Radiolabelled techniques 3c. Biogeochemical Cycles: Carbon cycle, Nitrogen cycle, Sulphur cycle, Phosphorus Cycle, Iron cycle
SEMESTER – IV Applied Microbiology			
7.	JAN	15L	Unit I Basic Microbiology 1a. Microbial World & you

			<p>Microbes in our lives</p> <p>Types of Microorganisms</p> <p>1b. Morphology and Physiology of Bacteria:</p> <p>Microscopy</p> <p>Staining - monochrome, differential and cytological Shape of Bacteria</p> <p>Bacterial Anatomy- Structure & function Growth and Multiplication of Bacteria Bacterial Growth Curve</p> <p>1c. Culture Methods</p> <p>Methods of Isolating Pure Cultures</p> <p>Anaerobic Culture Methods (Anaerobic blood agar, Cooked meat media, Thioglycollate medium)</p>
8.	FEB	15L	<p>Unit II Common infectious diseases, Epidemiology and public health awareness</p> <p>Part A: Common infectious diseases</p> <p>2a. Skin Infections:</p> <p>Study of structure and functions of skin</p> <p>Study of skin infections caused by <i>Pseudomonas</i>, Acne & Measles</p> <p>2b. Infections of Nervous system</p> <p>Study of structure and functions of nervous system Study of Tetanus & Rabies</p> <p>2c. Infections of Respiratory systems</p> <p>Study of structure and function of respiratory system</p> <p>Study of pharyngitis, laryngitis, Sinusitis (learn terms only).</p> <p>Diphtheria and common cold</p> <p>Part B: Epidemiology and Public Health Awareness</p> <p>2e. The Epidemiology of Infectious Diseases and Their Control</p> <p>Epidemiological terminology: Epidemiology, sporadic diseases, endemic diseases,</p> <p>Hyperendemic Diseases, Epidemic Diseases, Index Case, Pandemic Disease, Outbreak</p> <p>2f. The Spread of Infection:</p> <p>Reservoirs of infection - Human reservoir, Animal reservoir, non-living reservoir</p> <p>Transmission of Disease- Contact transmission, Vehicle Transmission and vectors</p>
9.	MARCH	15L	<p>Unit-III Control of Microorganisms & Safety in Clinical Microbiology</p> <p>3a. Sterilization and disinfection</p> <p>Methods of sterilization:</p> <p>Dry heat: Hot air sterilizers</p> <p>Moist heat: Steaming at 100°C, Autoclave.</p> <p>Gas Sterilization, Ethylene oxide sterilizer, Gas plasma</p> <p>Sterilizing filters Sterilization by radiation</p> <p>3b. Disinfectants:</p> <p>Disinfection of surfaces and spillages</p> <p>Disinfection of safety cabinets Discard jars</p> <p>Disinfection of rooms Disinfection of skin Testing of disinfectants</p> <p>3c. Safety in Clinical Microbiology</p> <p>Chemical safety</p> <p>Fire safety Electrical</p>

		<p>safety</p> <p>Handling of compressed gases:</p> <p>Exposure control plan: Employee education and orientation,</p> <p>Disposal of hazardous waste, Standard precautions,</p> <p>Engineering controls: Laboratory Environment, Biological safety cabinet, Personal protective equipment, Post exposure control</p> <p>Classification of biologic agents based on hazard</p>
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Teaching Plan: Academic Year -2020-21

Name of the Faculty: Mrs Surekha Patil

Class:- S.Y.BSC(Micro)

Sub: - Sem III Biomolecules and Microbial taxonomy

Sem IV Metabolism & Basic Analytical Techniques

Department: Microbiology

Sr. No.	Month	Available Period	Topic/Sub Topic to be Taught:
SEMESTER - III Biomolecules and Microbial taxonomy			
1.	AUG	15L	Unit I: Estimation Of Biomolecules 1a. Macromolecular composition of a microbial cell 1b. Methods of elemental analysis: Carbon ,Nitrogen and Phosphorus 1c. Estimation of Proteins and amino acids Proteins by Biuret method (Direct and indirect) Amino acids by Ninhydrin method 1d. Estimation of Carbohydrates Total carbohydrates by Anthrone method Reducing Sugars (maltose) by DNSA method Reducing sugar Fehling's method 1e. Extraction of Lipids by Soxhlet method 1f. Estimation of Nucleic acids General principles and extraction of nucleic acids DNA by DPA method RNA by Ocinol method
2.	SEP	15L	Unit II: Nucleic acid structure and chemistry 2a. Nucleic Acid Structure DNA stores genetic information DNA molecules have distinctive base composition DNA is a double helix. DNA can occur in different 3D forms DNA sequences adopt unusual structures Many RNAs have complex 3D structures 2b. Nucleic acid chemistry Denaturation of double helical DNA and RNA Nucleic acid from different species can form hybrids Nucleotides and nucleic acids undergo two enzymatic transformations DNA methylation 2c. Other Functions of nucleotides
3.	OCT-NOV	15L	Unit (II. Microbial) Taxonomy 3a. Introduction to microbial taxonomy Systems of classification(Cavalier Smith 6 kingdom) Bergey's manual The three domains concept based on phylogeny Nomenclature Taxonomic ranks

			<p>3b. Methods of analysis used in classification : Phenotypic analysis (Morphological characteristics, Physiological and metabolic characteristics, Biochemical characteristics, Ecological characteristics, Fatty acid analysis)</p> <p>3c. Genetic analysis DNA-DNA hybridization DNA profiling Multilocus sequence analysis G+C ratio Genetic finger printing</p> <p>3d. Amino acid sequencing</p> <p>3e. Phylogenetic analysis Nucleic acid sequencing Analysis of individual genes Multilocus gene sequence analysis Whole genome sequence analysis</p>
SEMESTER – IV Metabolism & Basic Analytical Techniques			
7.	JAN	15L	<p>Unit I Introduction To Metabolism & Bioenergetics</p> <p>1a Introduction to metabolism, Metabolic pathways</p> <p>1b Organic reaction mechanism</p> <p>1c Experimental approaches to study metabolism</p>
8.	FEB	15L	<p>Unit II Enzyme Kinetics</p> <p>2a. Introduction of Enzymes: General properties of enzymes How do enzymes accelerate reaction Rate law for a simple catalyzed reaction, Michaelis-Menten equation and it's derivation Lineweaver Burk plot Classification of enzymes</p> <p>2b. Overview of Coenzyme: Coenzymes: Different types and reactions catalyzed by coenzymes (in tabular form) Nicotinic acid: structure, occurrences & biochemical function</p> <p>2c. Enzyme Kinetics: Saturation kinetics Effect of temperature and pH Effect of Inhibitors- Reversible and irreversible, competitive, Non competitive and uncompetitive inhibitors Multisubstrate reactions- Ordered, Random and pingpong reactions Allosteric effects in enzyme catalyzed reactions- Koshland-Nemethy and Filmer model & Monod, Wyman and Changeux model</p>
9.	MAR	15L	<p>Unit-III Analytical techniques</p> <p>3a.Chromatography Introduction to chromatography, types of chromatography Paper chromatography: Principle, circular, ascending and</p>

		<p>descending Paper Chromatography, Separation of amino acids and monosaccharides by Paper Chromatography.</p> <p>Thin layer chromatography : principle, preparation of TLC plates, procedure for TLC, preparative TLC, 2D TLC [one paragraph], HPTLC-[1 page]</p> <p>3b. Centrifugation</p> <p>Introduction : basic principles of sedimentation Types, care and safety aspects of centrifuges, types of rotors , care and maintenance, safety & centrifugation</p> <p>Preparative centrifugation & its applications, Analytical centrifugation and its application</p>
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Name of the Faculty: Ms. Minisha Bhutke

Class: - T.V.BSC(Micro)

Subj: - Microbial Genetics

Department: Microbiology

Sr No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	AUG	15L	Unit I: DNA Replication
			<p>1.1. Historical perspective - Conservative, dispersive, semi-conservative, bidirectional and semi-discontinuous, Theta model of replication.</p> <p>1.2. Prokaryotic DNA replication - Details of molecular mechanisms involved in Initiation, Elongation and Termination</p> <p>1.3. Enzymes and proteins associated with DNA replication- Primase, Helicase, Topoisomerase, SSB, DNA polymerases, Ligases, Ter and Tus proteins.</p> <p>1.4. Eukaryotic DNA replication - Molecular details of DNA synthesis, replicating the ends of the chromosomes assembling newly replicated DNA into nucleosomes.</p> <p>Rolling circle mode of DNA replication Practical-</p> <ol style="list-style-type: none"> 1. UV survival curve – determination of exposure time leading to 90% reduction 2. Isolation of mutants using UV mutagenesis
2.	SEP	15L	<p>Unit II: Transcription, Genetic Code and Translation</p> <p>2.1 Central Dogma: An Overview, Transcription process, Transcription in bacteria - Initiation of transcription at promoters, elongation of an RNA chain, termination of an RNA chain</p> <p>2.2 Transcription in Eukaryotes - Eukaryotic RNA polymerase, Transcription of protein-coding genes by RNA polymerase II, Transcription initiation, The structure and production of Eukaryotic mRNAs, Production of mature mRNA in Eukaryotes, Processing of Pre-mRNA to mature mRNA. Self</p>

			<p>Splicing of Introns, RNA editing</p> <p>23 Genetic code - Nature of genetic code and characteristics of genetic code.</p> <p>Translation process - Transfer RNA, structure of tRNA, tRNA genes, Recognition of the tRNA anticodon by the mRNA codon, Adding of amino acid to tRNA, Ribosomal RNA and Ribosomes, Ribosomal RNA Genes, Initiation of translation, Initiation in Bacteria, Initiation in eukaryotes, Elongation of the polypeptide chain, termination of translation, protein sorting in the cell.</p> <p>Practical</p> <ol style="list-style-type: none"> 1. Gradient plate technique (dye resistant mutant) 2. Replica plate technique for selection & characterization of mutants – auxotroph & antibiotic resistant
3.	SEP-OCT	15L	<p>Unit III: Transcription, Genetic Code and Translation</p> <p>3.1 Mutation Terminology: alleles, homozygous, heterozygous, genotype, phenotype, Somatic mutation, Germline mutation, Gene mutation, Chromosome mutation, phenotypic lag, hotspots and master genes.</p> <p>3.1.2 Fluctuation test.</p> <p>3.1.3 Types of mutations: Point mutation, reverse mutation, suppressor mutation, frameshift mutation, conditional lethal mutation, base pair substitution, transition, transversion, missense mutation, nonsense mutation, silent mutation, neutral mutation, pleiotropic mutations.</p> <p>3.1.4 Causes of mutations: Natural/spontaneous mutation—replication error, depurination, deamination. Induced mutation: principle and mechanism with illustrative diagrams for:</p> <p>3.1.4.1 Chemical mutagens - base analogues, nitrous acid, hydroxyl radicals, intercalating agents and alkylating agents.</p> <p>3.1.4.2 Physical mutagen</p> <p>3.1.4.3 Biological mutagen (only examples)</p> <p>3.1.5 Ames test</p> <p>3.1.6 Detection of mutants</p> <p>3.2 DNA Repair</p> <ol style="list-style-type: none"> 3.2.1 Mismatch repair, 3.2.2 Light repair 3.2.3 Repair of alkylation damage 3.2.4 Base excision repair 3.2.5 Nucleotide excision repair 3.2.6 SOS repair

			Practical- I. Isolation and detection of plasmid DNA.
4	OCT- NOV	15L	Unit IV: Genetic Exchange & Homologous Recombination 4.1 Genetic analysis of Bacteria 4.3 Gene transfer mechanisms in bacteria 4.2.1 Transformation 4.2.1.1 Introduction and History 4.2.1.2 Types of transformation in prokaryotes—Natural transformation in <i>Streptococcus pneumoniae</i> , <i>Haemophilus influenzae</i> , and <i>Bacillus subtilis</i> . 4.2.1.3 Mapping of bacterial genes using transformation. Problems based on transformation. 4.2.2 Conjugation 4.2.2.1 Discovery of conjugation in bacteria 4.2.2.2 Properties of F plasmid/Sex factor 4.2.2.3 The conjugation machinery 4.2.2.4 Hfr strains, their formation and mechanism of conjugation F' factor, origin and behavior of F' strains, Sexduction. 4.2.2.6 Mapping of bacterial genes using conjugation (Wolman and Jacob experiment). 4.2.2.7 Problems based on conjugation 4.2.3 Transduction 4.2.3.1 Introduction and discovery 4.2.3.2 Generalized transduction 4.2.3.3 Use of Generalized transduction for mapping genes 4.2.3.4 Specialized transduction 4.2.3.5 Problems based on transduction 4.3 Recombination in bacteria 4.3.1 General/Homologous recombination 4.3.2 Molecular basis of recombination 4.3.3 Holliday model of recombination (Single strand DNA break model only) 4.3.4 Enzymes required for recombination Site-specific recombination
SEMESTER – VI Recombinant DNA technology, Bioinformatics & Virology			

7.	JAN	15L	Unit I: Recombinant DNA Technology
		20L	<p>1.1 Branches of Genetics</p> <p>1.1.1 Transmission genetics</p> <p>1.1.2 Molecular genetics</p> <p>1.1.3 Population genetics</p> <p>1.1.4 Quantitative genetics</p> <p>1.2 Model Organisms</p> <p>1.2.1 Characteristics of a model organism</p> <p>1.2.2 Examples of model organisms used in study</p> <p>1.2.3 Examples of studies undertaken using prokaryotic and eukaryotic model organisms</p> <p>1.3 Plasmids</p> <p>1.3.1 Physical nature</p> <p>1.3.2 Detection and isolation of plasmids</p> <p>1.3.3 Plasmid incompatibility and Plasmid curing</p> <p>1.3.4 Cell to cell transfer of plasmids</p> <p>1.3.5 Types of plasmids</p> <p>1.3.6 Resistance Plasmids, Plasmids encoding Toxins and other Virulence characteristics, Colfactor, Degradative plasmids</p> <p>1.4 Transposable Elements in Prokaryotes</p> <p>1.4.1 Insertion sequences</p> <p>1.4.2 Transposons: Types, Structure and properties, Mechanism of transposition, Integrons</p> <p>1.5 Basic steps in Gene Cloning.</p> <p>1.6 Cutting and joining DNA molecules - Restriction and modification systems, restriction endonucleases, DNA ligases</p> <p>1.7 Vectors</p> <p>1.7.1 Plasmids as cloning vectors. plasmid vectors, pBR322 vector</p> <p>1.7.2 Cloning genes into pBR322</p> <p>1.7.2 Phage as cloning vectors, cloning genes into phage vector</p> <p>1.7.4 Cosmids</p> <p>1.7.5 Shuttle vectors</p> <p>1.7.6 YAC</p> <p>1.7.7 BAC</p> <p>Methods of transformation</p> <p>Practical-</p>

			<ol style="list-style-type: none"> 1. Isolation of genomic DNA of <i>E. coli</i> and measurement of its concentration by UV-VIS. 2. Enrichment of coliphages, phage assay (pilot & proper). 3. Restriction digestion of lambda phage /any plasmid DNA (Demo) 4. Beta galactosidase assay
8.	FEB	15L	<p>Unit II: Applications of rDNA Technology & Bioinformatics</p> <p>PCR- basic PCR and different types of PCR (Reverse transcriptase PCR, Real time quantitative PCR)</p> <p>Basic techniques Southern, Northern and Western blotting. Autoradiography (explain the term)</p> <p>Screening and selection methods for identification and isolation of recombinant cells</p> <p>Applications of recombinant DNA technology: Site specific mutagenesis of DNA, Uses of DNA polymorphism, STRS and VNTRS, DNA molecular testing for human genetic diseases (Only RFLP), DNA typing, gene therapy, Genetic engineering of plants and animals.</p> <p>Bioinformatics Introduction Definition, aims, tasks and applications of Bioinformatics. Database, tools and their uses -</p> <ul style="list-style-type: none"> • Importance, Types and classification of databases • Nucleic acid sequence databases-EMBL, DDBJ, GenBank, GSDS, Ensembl and specialized Genomic resources. • Protein sequence databases-PIR, SWISS-PROT, TrEMBL, NRL-3D, Protein structure databases-SCOP, CATH, PROSITE, PRINTS and BLOCKS, KEGG. <p>Explain the terms: Transcriptome, Metabolomics, Pharmacogenomics, Phylogenetic analysis, Phylogenetic tree, Annotation, Genomics- structural, functional and comparative genomics, Proteomics - structural and functional proteomics, Sequence alignment - global v/s local alignment, FASTA, BLAST (Different types of BLAST)</p> <p>Practical</p>

			<p>Bioinformatics practicals</p> <p>Visiting NCBI and EMBL websites & list services available, software tools available and databases maintained</p> <p>Visiting & exploring various databases mentioned in syllabus and</p> <p>Using BLAST and FASTA for sequence analysis</p> <p>Fish out homologs for given specific sequences (by teacher – decide sequence of some relevance to their syllabus and related to some biological problem e.g.</p> <p>evolution of a specific protein in bacteria, predicting function of unknown protein from a new organism based on its homology)</p> <ol style="list-style-type: none"> Six frame translation of given nucleotide sequence Restriction analysis of given nucleotide sequence Pair-wise alignment and multiple alignment of a given protein sequences Formation of phylogenetic tree
9.	FEB-MARCH	15L	<p>Unit III: Regulation & Basic Virology</p> <p>3.1 A) Lac operon and problems on Lac operon B) Trp operon</p> <p>3.2 Regulation of lytic and lysogenic pathway of lambda phage</p> <p>3.3 Viral architecture - Capsid, viral genome and envelope</p> <p>3.4 Viral classification (Baltimore classification)</p> <p>Viral replication cycle - Attachment, penetration, uncoating, types of viral genome, their replication, assembly, maturation & release.</p> <p>Practical Animal cell culture (Demo)</p>
10	MARCH	15L	<p>Unit IV: Advanced Virology</p> <p>4.1 Structure of TMV, T4, Influenza virus, HIV. Life cycle of T4 phage, TMV, Influenza Virus and HIV in detail.</p>

- 4.2 Cultivation of viruses-** cell culture techniques, embryonated egg, laboratory animals, Cell culture methods: Equipment required for animal cell culture, Isolation of animal tissue
- 4.3 Visualization and enumeration of virus particles**
- 4.3.1 Measurement of infectious units
- 4.3.1.1 Plaque assay
- 4.3.1.2 Fluorescent focus assay
- 4.3.1.3 Infectious center assay
- 4.3.1.4 Transformation assay
- 4.3.1.5 Endpoint dilution assay.
- 4.3.2 Measurement of virus particles and their components
- 4.3.2.1 Electron microscopy
- 4.3.2.2 Atomic force microscopy
- 4.3.2.3 Haemagglutination
- 4.3.2.4 Measurement of viral enzyme activity.
- 4.4 Role of viruses in cancer:** Important definitions, characteristics of cancer cell, Human DNA tumor viruses- EBV, Kaposi sarcoma virus, Hepatitis B and C virus, Papiloma Virus.
- 4.5 Prions:** Defination, Examples of diseases caused by prions, Kuru, PrP protein and protein only hypothesis
- Viroids**



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Name of the Faculty : -Chandani Sonawane

Class: - T.Y.BSC (chemistry)

Sub: - PHYSICAL Chemistry

Department:

Sr. No	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - V			
1.	aug	12L	<p>UNIT1</p> <p>1.1 MOLECULAR SPECTROSCOPY</p> <p>1.1.1 Dipole moment: Introduction to dipole moment, polarization of a bond, bond moment, molecular structure.</p> <p>1.1.2 Rotational Spectrum: Rotational spectrum of a diatomic molecule, rigid rotor, moment of inertia, energy levels, conditions for obtaining pure rotational spectrum, selection rule, nature of spectrum, determination of internuclear distance and isotopic shift.</p> <p>1.1.3 Vibration spectrum: Vibrational motion, degrees of freedom, modes of vibration, vibrational spectrum of a diatomic molecule, simple harmonic oscillator, energy levels, zero point energy, conditions for obtaining vibrational spectrum, selection rule, nature of spectrum.</p> <p>1.1.4 Vibrational-Rotational spectrum of diatomic molecule energy levels, selection rule, nature of spectrum, P and R branch lines. Anharmonic oscillator - energy levels, selection rule, fundamental band, overtones. Application of vibrational-rotational spectrum in determination of force constant and its significance. Infrared spectra of simple molecules like H_2O and CO_2.</p> <p>1.1.5 Raman Spectroscopy : Scattering of electromagnetic radiation, Rayleigh scattering, Raman scattering, nature of Raman spectrum, Stoke's lines, anti-Stoke's lines, Raman shift, quantum theory of Raman spectrum, comparative study of IR and Ramanspectra, rule of mutual exclusion- CO_2 molecule.</p>
2.	aug	10L	<p>UNIT2</p> <p>2.1 Chemical Thermodynamics</p> <p>2.1.1 Colligative properties: Recapitulation, vapour pressure and relative lowering of vapour pressure.</p> <p>Measurement of lowering of vapour pressure - Static and Dynamic method.</p> <p>2.1.2 Solutions of Solid in Liquid:</p> <p>2.1.2.1 Elevation in boiling point of a solution, thermodynamic</p>

		5L	<p>derivation relating elevation in boiling point of the solution and molar mass of non-volatile solute.</p> <p>2.1.2.2 Depression in freezing point of a solution, thermodynamic derivation relating the depression in the freezing point of a solution and the molar mass of the non-volatile solute. Beckmann Method and Rast Method</p> <p>2.1.3 Osmotic Pressure : Introduction, thermodynamic derivation of Van't Hoff equation, Van't Hoff Factor. Measurement of Osmotic Pressure - Berkeley and Hartley's Method, Reverse Osmosis.</p> <p>2.2 CHEMICAL KINETICS</p> <p>2.2.1 Collision theory of reaction rates : Application of collision theory to 1. Unimolecular reaction and 2. Bimolecular reaction. Lindemann theory (derivation expected).</p> <p>2.2.2 Classification of reactions as slow, fast and ultra-fast. Study of kinetics of fast reactions by Stop flow method and Flash photolysis (No derivation expected).</p>
3.	AUG	15L	<p>UNIT3</p> <p>3.1 NUCLEAR CHEMISTRY</p> <p>3.1.1 Detection and Measurement of Radioactivity: Types and characteristics of nuclear radiations, behaviour of ion pairs in electric field, detection and measurement of nuclear radiations using G. M. Counter and Scintillation Counter.</p> <p>3.1.2 Radioactive Equilibrium : secular and transient, determination of radioactive constants for radio-elements having moderate half-life, long half-life and extremely long or short half-life.</p> <p>3.1.3 Application of use of radioisotopes as Tracers : chemical reaction mechanism, age determination - dating by C 14 .</p> <p>3.1.4 Nuclear reactions : nuclear transmutation, artificial radioactivity, Q - value of nuclear reaction, threshold energy.</p> <p>3.1.5 Fission Process : Fissile and fertile material, nuclear fission, chain reaction, factor controlling fission process. multiplication factor and critical size or mass of fissionable material, nuclear power reactor and breeder reactor.</p>

			3.1.6 Fusion Process : Thermonuclear reactions occurring on stellar bodies and earth.
4.	SEP - OCT	<p>6L</p> <p>9L</p>	<p>UNIT4</p> <p>4.1 SURFACE CHEMISTRY</p> <p>4.1.1 Adsorption: Physical and Chemical Adsorption, types of adsorption isotherms . Langmuir's adsorption isotherm (Postulates and derivation expected). B.E.T. equation for multilayer adsorption, (derivation not expected). Significance of the terms involved in equation. Determination of surface area of an adsorbent using B.E.T. equation. Numericals on surface area.</p> <p>4.2 Colloidal state</p> <p>4.2.1 Introduction to colloids - Emulsions, Gels and Sols</p> <p>4.2.2 Electrical Properties : Origin of charges on colloidal particles, Concept of electrical double layer, zeta potential, Helmholtz and Stern model. Electro-kinetic phenomena - Electrophoresis, Electro-osmosis, Streaming potential, Sedimentation potential; Donnan Membrane Equilibrium.</p> <p>4.2.3 Colloidal electrolytes : Introduction, micelle formation,</p> <p>4.2.4 Surfactants: Classification and applications of surfactants in detergents, food industry, pesticide formulation.</p>


4.	NOV	15L	<p>Semester VI</p> <p>UNIT1</p> <p>1.1 ELECTROCHEMISTRY</p> <p>1.1.1 Activity and Activity Coefficient: Lewis concept, ionic strength, Mean ionic activity and mean ionic activity coefficient of an electrolyte, expression for activities of electrolytes. Debye-Huckel limiting law (No derivation).</p> <p>1.1.2 Classification of cells: Chemical cells and Concentration cells.</p> <p>Chemical cell without transference, Concentration cells with and without transference (derivations are expected), Origin of liquid-liquid junction potential.</p> <p>1.1.3 Applications of EMF Measurements : Determination of liquid-liquid junction potential, Determination of formula of Ag-ammonia complex.</p> <p>1.2 APPLIED ELECTROCHEMISTRY</p> <p>1.2.1 Polarization: concentration polarization and its elimination</p> <p>1.2.2 Decomposition Potential and Overvoltage : Introduction, experimental determination of decomposition potential, factors affecting decomposition potential. Tafel's equation for hydrogen overvoltage, experimental determination of over-voltage</p>
5.	DEC	15L	<p>UNIT2</p> <p>2.1 POLYMERS</p> <p>2.1.1 Basic terms : macromolecule, monomer, repeat unit, degree of polymerization.</p> <p>2.1.2. Classification of polymers: Classification based on source, structure, thermal response and physical properties.</p> <p>2.1.3. Molar masses of polymers: Number average, Weight average, Viscosity average molar mass, Monodispersity and Polydispersity</p> <p>2.1.4. Methods of determining molar masses of polymers : Ultra-centrifuge method and Viscosity method. (No derivation)</p> <p>2.1.5. Light Emitting Polymers : Introduction, Characteristics, Method of preparation and applications.</p> <p>2.1.6. Fillers and Stabilizers : Fillers and Reinforcement, Plasticizers, Antioxidants and Thermal Stabilizers, Ultraviolet stabilizers, Fire retardants, Colourants, Antistatic agents and</p>

			Curing agents.
6.	JAN	10L	<p>UNIT2</p> <p>3.1 BASICS OF QUANTUM CHEMISTRY</p> <p>3.1.1 Classical mechanics: Introduction, limitations of classical mechanics, Black body radiation, photoelectric effect, Compton effect.</p> <p>3.1.2 Quantum mechanics : Introduction, Planck's theory of quantization, wave particle duality, de -Broglie's equation, Heisenberg's uncertainty principle.</p> <p>3.1.3 Progressive and standing waves- Introduction, boundary conditions, Schrodinger's time independent wave equation (No derivation expected), interpretation and properties of wave function.</p> <p>3.1.4 Postulates of quantum mechanics : State function and its significance, Concept of operators - definition, addition, subtraction and multiplication of operators, commutative and non -commutative operators, linear operator, Hamiltonian operator, Eigen function and Eigen value.</p> <p>3.2 RENEWABLE ENERGY RESOURCES 5L</p> <p>3.2.1. Renewable energy resources : Introduction.</p> <p>3.2.2 Solar energy: Solar cells, Photovoltaic effect, Semiconductors as solar energy converters, Silicon solar cell</p> <p>3.2.3. Fuel cells: Choice of fuel and oxidant, Bacon's H₂ and O₂ fuel cell.</p> <p>3.2.4. Hydrogen : Fuel of the future, production of hydrogen by direct electrolysis of water, advantages of hydrogen as a universal energy medium</p>
7.	FEB-MAR		<p>Unit III</p> <p>4.1 NMR -Nuclear Magnetic Resonance Spectroscopy 8L</p> <p>4.1.1. Nuclear spin, magnetic moment, nuclear 'g' factor, energy levels, Larmor precession, Relaxation processes in NMR (spin - spin relaxation and spin - lattice relaxation).</p> <p>4.1.2. NMR Spectrometer, chemical shift, shielding and deshielding of protons, low resolution NMR spectrum of methanol and ethanol.</p> <p>4.2 Electron Spin Resonance Spectroscopy –</p> <p>4.2.1. Principle, fundamental equation, g-value –dimensionless constant or electron g-factor, hyperfine splitting.</p> <p>4.2.2. ESR spectrometer, ESR spectrum of hydrogen and deuterium.</p>

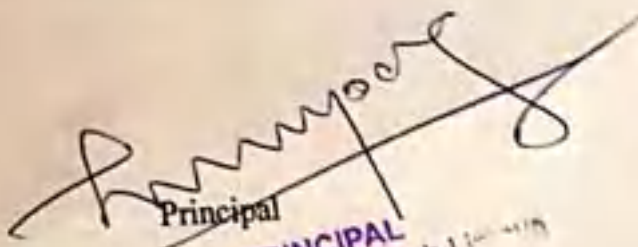
PRACTICAL

1	SEPT	SEMISTERV
		<p>Non-Instrumental</p> <p>1. Chemical Kinetics To interpret the order of reaction graphically from the given experimental data and calculate the specific rate constant. (No fractional order)</p> <p>2. Surface phenomena To investigate the adsorption acetic acid on activated charcoal and test the validity of Freundlich / Langmuir's adsorption isotherm.</p> <p>3. Partition Coefficient To study the molecular condition of benzoic acid in toluene by determining its partition between toluene and water.</p> <p>Instrumental</p> <p>Potentiometry 1. To determine standard reduction potential of $\text{Cu}^{++} | \text{Cu}$ electrode at room temperature. 2. To determine the solubility product and solubility of AgCl potentiometrically using chemical cell.</p> <p>Conductometry To determine the velocity constant of alkaline hydrolysis of ethyl acetate by conductometric method. pH-metry To determine acidic and basic dissociation constants of amino acid and hence to calculate isoelectric point.</p>
		<p>SEMISETER VI</p> <p>Non-Instrumental</p> <p>Chemical Kinetics To determine the order between $\text{K}_2\text{S}_2\text{O}_8$ and KI by fractional change method. Viscosity To determine the molecular weight of high polymer polyvinyl alcohol (PVA) by viscosity measurement.</p> <p>Instrumental</p> <p>Potentiometry 1. to determine the amount of iodide, bromide and chloride in the mixture by potentiometric titration with silver nitrate. 2. To determine the number of electrons in the redox reaction between ferrous ammonium sulphate and ceric sulphate potentiometrically.</p> <p>pH-metry</p>

2	DEC- FEB	<p>3. To determine the degree of hydrolysis of aniline hydrochloride pH-metrically.</p> <p>4. Conductometer; To titrate a mixture of weak acid and strong acid against strong base and estimate the amount of each acid in the mixture conductometrically.</p> <p>5. Colorimetry; To determine the empirical formula of the complex between Fe (III) and salicylic acid by Static Method.</p>
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Subject teacher




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SEM II- Basics of Microbiology

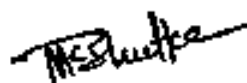
Department: Microbiology

Sl. No.	Month	Available Period	Topic/Sub Topic to be Taught
SEMESTER - I			
1.	OCT	15L	<p>1.1 History, Introduction & Scope Of Microbiology:</p> <ul style="list-style-type: none"> a. Discovery of microorganisms b. Conflict over spontaneous generation c. Golden Age Of Microbiology-Koch Postulate, Medical Microbiology, Immunology d. Development of industrial microbiology and microbial ecology e. Scope and relevance of microbiology f. Future of microbiology <p>1.2 Prokaryotic Cell Structure and functions:</p> <ul style="list-style-type: none"> a. Cell wall b. Cell membrane c. Components external to cell wall-Capsule, Slime layer, Flagella, Pili, Fimbriae d. Cytoplasmic matrix-inclusion bodies, magnetosomes, ribosomes, gas vesicles e. Nucleoid, Plasmids <p>Bacterial endospores and their formation</p> <p>Practical</p> <ul style="list-style-type: none"> 1. Assignment : Contribution of Scientists in the field of Microbiology 2. Special staining: Cell wall, capsule, endospore, flagella, lipid, metachromatic granules.
2.	NOV	15L	<p>2.1 Eukaryotic Cell Structures</p> <ul style="list-style-type: none"> a. Overview of Eucaryotic cell structure b. The plasma membrane and membrane Structure c. Cytoplasmic matrix, microfilaments, intermediate filaments, and microtubules d. Organelles of the Biosynthetic-secretory and endocytic pathways -Endoplasmic reticulum & Golgi apparatus. Definitions of Lysosome, Endocytosis, Phagocytosis, Autophagy, Proteasome e. Eucaryotic ribosomes f. Mitochondria g. Chloroplasts h. Nucleus -Nuclear Structure i. External Cell Coverings: Cilia And Flagella j. Comparison

			<p>Of Prokaryotic And Eukaryotic Cells</p> <p>2.2 Biosafety In Microbiology:</p> <ol style="list-style-type: none"> Means of laboratory infection Potentially hazardous procedures Responsibility Risk Assessment Restricted access Safety equipments Immunization and medical records Training of personnel Laboratory procedures <p>Levels of Containment</p> <p>Practical</p> <ol style="list-style-type: none"> Handling corrosive chemical using rubber test method for pipetting. Prevention of mouth pipetting and use of auto-pipettes. Discard of highly infectious pathogenic samples like T.B, sputum etc. Explain safety inoculation hood for infection inoculations and laminar air flow. On accidental spillage of/ breakage of culture containers-precautions to be taken. Demonstration of microbes in air, cough, on table surface, finger tips. Permanent slides of Eukaryotes & its organelles: Assignment: Eukaryotic organelles
3.	DEC	15L	<p>UNIT III:</p> <p>Macromolecules</p> <p>3.1 Chemical foundations:</p> <ol style="list-style-type: none"> Biomolecules as compounds of carbon with a variety of functional groups. Universal set of small molecules. Macromolecules as the major constituents of cells. Configuration and Conformation with definitions and suitable examples only. Types of Stereoisomers and importance of stereoisomerism in biology. Types of bonds and their importance: Electrovalence, covalent, ester, phosphodiester, thioester, peptide, glycosidic <p>3.2 Water- Structure, properties in brief.</p> <p>3.3 Carbohydrates: Definition, Classification, Biological role. Monosaccharides, oligosaccharides (maltose, cellobiose, sucrose, lactose) and polysaccharide (starch, glycogen, peptidoglycan, cellulose)</p> <p>3.4 Lipids: Fatty acids as basic component of lipids and their classification (Lehninger), nomenclature, storage lipids and structural lipids. Types of lipids with general structure of each and mention examples.</p>

			<p>3.5 Amino acids & proteins: General structure and features of amino acids (emphasis on amphoteric nature) Classification by R-group, Uncommon amino acids and their functions Peptides and proteins- Definition and general features and examples with biological role. Primary, secondary, tertiary, quaternary structures of proteins- Brief outline.</p> <p>3.6 Nucleic acids: Nitrogenous bases- Purines, Pyrimidines Pentoses-Ribose, Deoxyribose, Nomenclature of Nucleosides and nucleotides, N-β-glycosidic bond, polynucleotide chain to show bonding between nucleotides (Phosphodiester bonds). Basic structure of RNA and DNA. Practical</p> <ol style="list-style-type: none"> 1. Qualitative detection : 2. Carbohydrates- Benedicts, Molisch's test. 3. Proteins, amino acids- Biuret, Ninhydrin. 4. Nucleic acid detection by DPA and Orcinol.
SEMESTER - II			
7.	JAN	15L	<p>Study Of Different Groups Of Microbes-I: 1.1 Viruses: a) Historical highlights, General properties of viruses, prions, viroids b) Structure of viruses- capsids, envelopes, genomes, c) Cultivation of viruses- overview d) Bacteriophages: Lytic cycle, Lysogeny, Structure and Life cycle of T4 phage.</p> <p>1.2 Rickettsia, Chlamydia, Chlamydia, Mycoplasma: general features, medical significance</p> <p>1.3 Actinomycetes: General features of Nocardia and Streptomyces Importance: ecological, commercial and medical</p> <p>1.4 Archaea: Introduction- Major Archaeal physiological groups, Archaeal cell wall, lipids and membranes, Ecological importance</p> <p>Practical 1. Spot assay and plaque assay of Bacteriophage (Demonstration) Slide Culture technique (Actinomycetes & Fungal Culture)</p>
8.	FEB	15L	<p>Study Of Different Groups Of Microbes-II: Classification, Morphological characteristics, cultivation, reproduction and significance</p> <p>2.1 Protozoa- Major Categories of Protozoa Based on motility, reproduction. Medically important Protozoa Life cycle of Entamoeba</p> <p>2.2 Algae - Characteristics of algae: morphology, Pigments, reproduction Cultivation of algae. Major groups of Algae -an overview. Biological, Medical and</p>

			<p>economic importance of Algae. Differences between Algae and Cyanobacteria</p> <p>2.3 Fungi and Yeast-Characteristics: structure, Reproduction.Cultivation of fungi and yeasts. Major fungal divisions- overview. Life cycle of yeast,Biological and economical importance</p> <p>Slime molds and Myxomycetes</p> <p>Practical</p> <ol style="list-style-type: none"> 1. Isolation of yeast, cultivation of other fungi Cultivation on Sabourauds agar 2. Static & Shaker Cultures 3. Fungal Wet mounts & Study of Morphological Characteristics :Mucor,Rhizopus,Aspergillus, Penicillium, 4. Permanent slides of Algae, Protozoa
9.	MARCH	15L	<p>Microbial Growth:</p> <p>3.1</p> <ol style="list-style-type: none"> a. Definition of growth, Mathematical Expression, Growth curve b. Measurement of growth c. Direct microscopic count – Bred's count ,Petroff–Hausercounting chamber- Haemocytometer. d. Viable count – Spread plate and Pour plate technique e. Measurements of cell constituents. f. Turbidity measurements – Nephelometer and spectrophotometer techniques g. Synchronous growth, Continuous growth (Chemostat and Turbidostat) h. Influence of environmental factors on growth. i. Microbial growth in natural environment. <p>Counting viable non-culturable organisms-Quorum sensing techniques</p> <p>Practical</p> <ol style="list-style-type: none"> 1. Growth curve (Demonstration) only in complex media. & Bred's Count 2.Haemocytometer 3. Viable count: Spread plate and pour plate 4. Brown's opacity 5. Effect of pH and temperature on growth 6. Measurement of cell dimensions- Microscopy



Teacher

Ms. Manisha Bhutke



HOD

Mrs. Roopa Kamala



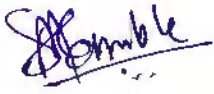
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Rajawade, Rajawade, Rajawade,
Tale, Rajawade, Rajawade, Rajawade.

सु. ए. सो. शिक्षणमहर्षी दादासाहेब लिमये कला, विज्ञान व वाणिज्य
महाविद्यालय कळंबोली, नवी मुंबई.

वार्षिक नियोजन - मराठी विभाग - सन २०२०-२१

अ. क्रं.	महिना व तारीख	कार्यक्रम
१.	१० ऑगस्ट	सत्र आरंभाची मिटींग
२.	५ सप्टेंबर	शिक्षक दिनानिमित्त व्याख्यान
३.	२ ऑक्टोबर	महात्मा गांधी जयंती व लालबहादूर शास्त्री यांच्या जयंती निमित्त निबंध स्पर्धा
४.	३ जानेवारी	क्रांतीज्योती सावित्रीबाई फुले जयंती निमित्त व्याख्यान
५.	२८ जानेवारी	राजमाता जिजाऊसाहेब यांच्या जयंतीनिमित्त वक्तृत्व स्पर्धा
६.	२७ फेब्रुवारी	जागतिक मराठी भाषा दिन



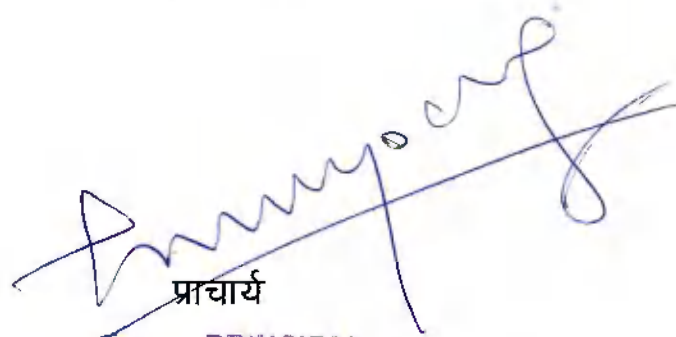
विषय शिक्षक



विभाग प्रमुख

Head

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प्राचार्य


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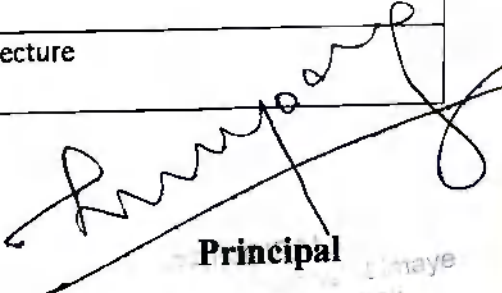
SHIKSHAN MAHARSHI DADASHEB LIMAYE COLLEGE, KALAMBOLI.**DEPARTMENT OF HISTORY**

Revise Annual Planning (Academic Calendar of Dept. of History) 2020-21

Day	Event	Programme / Theme
29-30/05/2020	National Interdisciplinary Seminar	Tradition and Modernity : Exploring Perspectives in History, Culture and Literature
26/06/2020	International Interdisciplinary Webinar	Tourism Development, Visual Arts, Education, Literature
7 th August 2020	College Reopen	---
14 th August	Preparation of Independence Day	Preparation of Independence Day
15 th August	Independence Day	Independence Day celebration
5 th Sept.	Teachers Day Celebration	Online Programme
2 nd October	Mahatma Gandhi Jayanti Lal Bahadur Shastri Jayanti	Online Programme
28 th November	Mahatma Phule Death Anniversary & Dadasaheb Limaye Jayanti	Online Lecture Programme
1 st December	Aids Awareness Day	Online Programme
6 th December	Dr. B. R. Ambedkar Death Anniversary	Online Programme
3 rd January 2020	Savitribai Phule Jayanti & Mahila Mukti Din	Online Programme
9 th January	National Tourism Day	Online Programme
25 th January	Preparation of Republic Day	Preparation of Republic Day
26 th January	Republic Day Celebration	Republic Day Celebration
30 th January	Hutatma Din	Online Programme
19 th February	Chatrapati Shivaji Maharaj Jayanti	Organize Essay Competition
14 th April	Dr. Baba Saheb Ambedkar Jayanti	Online Programme
1 st May	Maharashtra Din & Labor Day	Offline & Online Programme
09-10 th May	M.A. History Students Seminar On "Local History"	"Local History" - Online
26 th June	Chatrapati Shahu Maharaj Jayanti	Online Lecture


Subject Teacher




Principal
Shikshan Maharshi Dadasaheb Limaye College, Kalamboli,
Tal.- Panvel, Dist. - Raigad.

**SHIKSHAN MAHARSHI DADASAHEB LIMAYE ARTS ,COMMERCE
AND SCIENCE COLLEGE KALAMBOLI**

Academic Planning
Academic Year 2020-2021

अर्थशास्त्र विभाग (Economics Department)

- ऑगस्ट- विभाग सभा
- सप्टेंबर- अर्थशास्त्र विषयातील नोकरीच्या संधी या विषयावर व्याख्यान.
- ऑक्टोबर- महात्मा गांधींचे आर्थिक विचार यावर विद्यार्थी चर्चासत्र
- डिसेंबर- औद्योगिक भेट
- जानेवारी- covid-19 आणि कौटुंबिक उत्पन्न या विषयावर विद्यार्थ्यांचा सेमिनार.
- फेब्रुवारी- Faculty Exchange Programme
Parents meeting.
- मार्च- जीएसटी या विषयावर सर्टिफिकेट कोर्स
Career guidance program

Department of Economics

1. Mahajan S. B.

Swijy

2. Salunkhe V. D.

Beasne



Ampan

PRINCIPAL
Principal
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli.
Tal. Panvel, Dist. Raigad.

सुधागड एज्युकेशन सोसायटीचे,
शिक्षण महर्षी दादासाहेब लिमये, कला, वाणिज्य आणि विज्ञान महाविद्यालय कळंबोली.

शैक्षणिक वर्ष-2020-21

अर्थशास्त्र विभाग सभा


दिनांक रोजी 07-08-2020 रोजी अर्थशास्त्र विषयाच्या शिक्षकांची प्रथम सत्राच्या सुरुवातीची सभा
मा. प्राचार्य कक्षामध्ये दुपारी 1.10 pm ते 2.10 pm या वेळेत पार पडली.

मिटिंगचा अजेंडा: -


- Teaching Plan
- Individual Time Table
- अर्थशास्त्र विभागाच्या वार्षिक नियोजनाचा आराखडा
- Online Class
- Assignment
- TYBA विद्यार्थ्यांसाठी प्रोजेक्टचे विषय

Minutes of Meetings: -

- 2020-21 या वर्षीचा Teaching Plan तयार करण्यासंदर्भात चर्चा करण्यात आली.
- Individual Time Table तयार करण्यासंदर्भात चर्चा करण्यात आली.
- अर्थशास्त्र विषयाच्या वार्षिक नियोजनाचा आराखडा तयार करण्यासंदर्भात चर्चा करण्यात आली.
- COVID-19 ची पार्श्वभूमी लक्षात घेता Google Meet माध्यमातून विद्यार्थ्यांना Lectures आणि Google Classroom च्या माध्यमातून विद्यार्थ्यांना अभ्यासक्रमाचे सर्व मटेरियल पुरवण्यासंदर्भात चर्चा करण्यात आली.
- Google Classroom च्या माध्यमातून Assignment & Project Work विद्यार्थ्यांकडून पूर्ण करून घेण्यासंदर्भात चर्चा करण्यात आली.

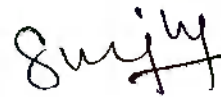


अर्थशास्त्र विभाग
Head
Department of Economics
S. M. D. L. College, Kalamboi.




प्राचार्य
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kaiamboi,
Tal : Panvel, Dist : Raigad.

1. महाजन संजय बाबुराव (सहाय्यक प्राध्यापक)

2. सौ. साळुंखे वसुंधरा दत्ताराम (सहाय्यक प्राध्यापक)

सुधागड एज्युकेशन सोसायटीचे,
शिक्षण महर्षी दादासाहेब लिमये, कला, वाणिज्य आणि विज्ञान महाविद्यालय कळंबोली.
शैक्षणिक वर्ष-2020-21

अर्थशास्त्र विभाग सभा

दिनांक रोजी 14-12-2020 रोजी अर्थशास्त्र विषयाच्या शिक्षकांची प्रथम सत्रातील दुसरी सभा मा.
प्राचार्य कक्षामध्ये दुपारी 1.00 pm ते 2.00 pm या वेळेत पार पडली.

मिटिंगचा अजेंडा: -


- मागील सभेचे इतिवृत्त
- Syllabus Completion
- Assignments & Project
- Semester-i, III & V चा अभ्यासक्रम व मटेरियलची उपलब्धता

Minutes of Meetings: -

- मागील सभेचे इतिवृत्त वाचून दाखविण्यात आले.
- अभ्यासक्रम पूर्ण झाल्याचा अहवाल (Syllabus Completion Report) तयार करण्यासंबंधी चर्चा करण्यात आली.
- विद्यार्थ्यांची स्वाध्याय पुस्तिका (Assignment) आणि प्रकल्पाचे कामकाज (Project Work) Online माध्यमातून पूर्ण करून घेण्यासंबंधी चर्चा करण्यात आली.
- Semester-I, III & V चा अभ्यासक्रम व मटेरियल विद्यार्थ्यांना पोहोचल्याची खात्री करून घेऊन त्यांना ऑनलाइन परीक्षे संबंधात माहिती देऊन त्यांच्या अडचणी जाणून घ्याव्यात व त्या सोडविण्याच्या संदर्भात प्रयत्न करावेत यासंबंधी चर्चा करण्यात आली.

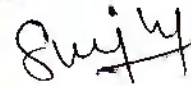

अर्थशास्त्र विभाग
Head
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S. M. D. L. College, Kalamboli.




प्राचार्य
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

1. महाजन संजय बाबुराव (सहाय्यक प्राध्यापक)

2. सौ. साळुंखे वसुंधरा दत्ताराम (सहाय्यक प्राध्यापक)





सुधागड एज्युकेशन सोसायटीचे,
शिक्षण महर्षी दादासाहेब लिमये, कला, वाणिज्य आणि विज्ञान महाविद्यालय कळंबोली.
शैक्षणिक वर्ष- 2020-21

प्रथम सत्राचा Action Taken Report: -

1. Teaching Plan & Individual Time Table तयार करण्यात आले.
2. अर्थशास्त्र विभागाच्या वार्षिक नियोजनाचा आराखडा तयार करण्यात आला.
3. COVID-19 ची पार्श्वभूमी लक्षात घेता मा. प्राचार्यांच्या सूचनेनुसार FYBA, SYBA & TYBA च्या विद्यार्थ्यांचे वर्गनिहाय Google Classroom उघडण्यात आले.
4. Google Meet च्या माध्यमातून वेळापत्रकानुसार Online तासिका घेण्यात आल्या.
5. विद्यार्थ्यांना Google Classroom माध्यमातून अभ्यासक्रमासंबंधीची माहिती तसेच मटेरियल पुरविण्यात आले.
6. Syllabus Completion Report तयार करण्यात आला.
7. विद्यार्थ्यांचे प्रोजेक्ट वर्क Online माध्यमातून पूर्ण करून घेण्यात आले.
8. विद्यापीठाच्या मार्गदर्शक सूचनेनुसार Google Form च्या माध्यमातून MCQ पद्धतीने परीक्षा घेतली जाणार असल्याची माहिती विद्यार्थ्यांना देण्यात आली. तसेच Google Form च्या माध्यमातून सराव परीक्षा (Mock Test) घेण्यात आली.

Sujit
अर्थशास्त्र विभाग

Head
Department of Economics
S. M. D. L. College, Kalamboli.



[Signature]
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

1. महाजन संजय बाबुराव (सहाय्यक प्राध्यापक)
2. सौ. सालुंखे वसुंधरा दत्ताराम (सहाय्यक प्राध्यापक)

Sujit

[Signature]

सुधागड एज्युकेशन सोसायटीचे,
शिक्षण महर्षी दादासाहेब लिमये, कला, वाणिज्य आणि विज्ञान महाविद्यालय कळंबोली.

शैक्षणिक वर्ष- 2020-21

अर्थशास्त्र विभाग सभा

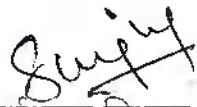
दिनांक रोजी 03-01-2021 रोजी अर्थशास्त्र विषयाच्या शिक्षकांची विद्वतीय सत्रातील प्रथम सभा मा.
प्राचार्य कक्षामध्ये दुपारी 1.10 pm ते 2.10 pm या वेळेत पार पडली.

मिटिंगचा अजेंडा: -


- मागील सभेचे इतिवृत्त
- द्वितीय सत्रातील अभ्यासक्रम
- Semester-II, IV& VI मटेरियल
- Project Work
- Certificate Course
- Faculty Exchange

Minutes of Meetings: -

- मागील सभेचे इतिवृत्त वाचून दाखविण्यात आले.
- COVID-19 ची पार्श्वभूमी लक्षात घेता Google Meet माध्यमातून विद्यार्थ्यांना Lectures आणि Google Classroom च्या माध्यमातून विद्यार्थ्यांना Semester-II, IV& VI चे सर्व मटेरियल पुरवण्यासंदर्भात चर्चा करण्यात आली.
- Google Classroom च्या माध्यमातून Project Work विद्यार्थ्यांकडून पूर्ण करून घेण्यासंदर्भात चर्चा करण्यात आली.
- Certificate Course on GST चे आयोजन कण्यासंबंधात चर्चा करण्यात आली.
- Faculty Exchange Programme च्या संबंधात चर्चा करण्यात आली.


अर्थशास्त्र विभाग
Head
Department of Economics
S. M. D. College, Kalambooli




PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalambooli,
Tal : Panvel, Dist : Raigad.

1. महाजन संजय बाबुराव (सहाय्यक प्राध्यापक)
2. सौ. साळुंखे वसुंधरा दत्ताराम (सहाय्यक प्राध्यापक)


Beelane

सुधागड एज्युकेशन सोसायटीचे,
शिक्षण महर्षी दादासाहेब लिमये, कला वाणिज्य आणि विज्ञान महाविद्यालय कळंबोली.

शैक्षणिक वर्ष- 2020-21

अर्थशास्त्र विभाग सभा

दिनांक रोजी 23-04-2021 रोजी अर्थशास्त्र विषयाच्या शिक्षकांची द्वितीय सत्रातील द्वितीय सभा
मा. प्राचार्य कक्षामध्ये दुपारी 1.10 pm ते 2.10 pm या वेळेत पार पडली.

मिटिंगचा अजेंडा: -


- मागील सभेचे इतिवृत्त
- Syllabus Completion
- Project Work
- Semester-II, IV & VI चा अभ्यासक्रम व मटेरियलची उपलब्धता

Minutes of Meetings: -

- मागील सभेचे इतिवृत्त वाचून दाखविण्यात आले.
- अभ्यासक्रम पूर्ण झाल्याचा अहवाल (Syllabus Completion Report) तयार करण्यासंबंधी चर्चा करण्यात आली.
- विद्यार्थ्यांचे प्रकल्पाचे कामकाज (Project Work) Online माध्यमातून पूर्ण करून घेण्यासंबंधी चर्चा करण्यात आली.
- Semester-II, IV & VI चा अभ्यासक्रम व मटेरियल विद्यार्थ्यांना पोहोचल्याची खात्री करून घेऊन त्यांना ऑनलाइन परीक्षे संबंधात माहिती देऊन त्यांच्या अडचणी जाणून घ्याव्यात व त्या सोडविण्याच्या संदर्भात प्रयत्न करावेत यासंबंधी चर्चा करण्यात आली.


अर्थशास्त्र विभाग
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PRINCIPAL
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1. महाजन संजय बाबुराव (सहाय्यक प्राध्यापक)

2. सौ. साळुंखे वसुंधरा दत्ताराम (सहाय्यक प्राध्यापक)





सुधागड एज्युकेशन सोसायटीचे,
शिक्षण महर्षी दादासाहेब लिमये, कला, वाणिज्य आणि विज्ञान महाविद्यालय कळंबोली.
शैक्षणिक वर्ष- 2020-21


द्वितीय सत्राचा Action Taken Report: -

1. विद्यार्थ्यांना द्वितीय सत्राचा अभ्यासक्रम उपलब्ध करून देण्यात आला.
2. Google Meet च्या माध्यमातून वेळापत्रकानुसार Online तासिका घेण्यात आल्या.
3. विद्यार्थ्यांना Google Classroom माध्यमातून Semester-II, IV & VI अभ्यासक्रमा संबंधीची सर्व माहिती तसेच मटेरियल पुरविण्यात आले.
6. Semester-II, IV & VI चा Syllabus Completion Report तयार करण्यात आला.
7. विद्यार्थ्यांचे प्रोजेक्ट वर्क Online माध्यमातून पूर्ण करून घेण्यात आले.
8. अर्थशास्त्र विभाग आणि वाणिज्य विभाग यांच्या संयुक्त विद्यमानाने 12/03/2021 to 22/03/2021 या कालावधीत Certificate Course in GST चे आयोजन करण्यात आले.
9. अर्थशास्त्र विभाग, SMDL College (Mahajan Sanjay Baburao) & Rayat Shikshan Santha's Arts, Science & Commerce College Mokhada (Dr. Y. H. Ulvekar) यांच्या संयुक्त विद्यमानाने SYBA च्या विद्यार्थ्यांसाठी Faculty Exchange Programme दिनांक 12/02/2021 रोजी घेण्यात आला.


अर्थशास्त्र विभाग
Head

Department of Economics
S. M. D. L. College, Kalamboli.




PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

1. महाजन संजय बाबुराव (सहाय्यक प्राध्यापक)
2. सौ. साळुंखे वसुंधरा दत्ताराम (सहाय्यक प्राध्यापक)





Department meeting

12/08/2020

It is informed to all faculty members - teachers to attend 1st semester start meeting on 13th Aug, 2020 at 12:00 pm. in TVB room class.

Agenda of the meeting

- 1) Annual planning
- 2) Study circle of the students
- 3) Assignment & open book test
- 4) Parents meeting
- 5) Introduction of certificate course.
- 6) Extra lectures for advance learner & slow learner's

Dhamal
H.O.D



Principal
Principal

PRINCIPAL
SES's S. M. Dadasaheb Limaye
College, Kalamboli
Tal : Panvel, Dist : Raigad.

- 1) V.R. Dhamal
- 2) J.D. Machigae
- 3) B.M. Arote
- 4) P.P. Mali
- 5) Seema Pawar
- 6) T.P. Chobe

Dhamal
Teacher
Principal
S. M. Dadasaheb Limaye
778



Notice

02/12/2020

All faculty / teachers of commerce department to informed 1st semester end meeting will be held on ²⁻¹²⁻²⁰ at 11.30 am in college Hall Kindly please attend the meeting.

Dhamal
H.O.D.

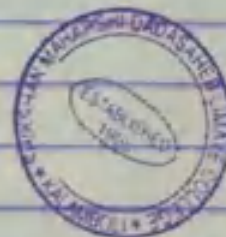
Principal
Principal

PRINCIPAL
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College, Kalambohi,
Tal : Parvel, Dist : Raigad.

1. V.P. Dhamal
2. J.D. Machigas
3. B.M. Arote
4. Mali P.P
5. Seema Pawar
6. V.T.R. Chobey

Dhamal
Gachyew

Prati
Bun
Dhamal
JK



Minutes of the meetings.

1. Discussion on syllabus completion
2. Discussion on Revision of syllabus.

7/1/2021

सूचना

बाबिज्य विभागातील सर्व सहकारी प्राध्यापकांना सूचित करण्या
येते की द्वितीय सत्रातील पहिली सभा 8/1/2021 रोजी कि.
11:00 To 12:30 Pm या वेळाला T.Y. 8-60m न्यास वर्गात
आयोजित केली असून सर्व प्राध्यापकांनी उपस्थित व्हावे.

Dhamal

H. O. D.

प्राचार्य

- ① Prof. V. R. Dhamal
- ② Prof. J. D. Machgar
- ③ Dr. B. M. Arde
- ④ Prof. P. P. Mali
- ⑤ Prof. Rawat Seema
- ⑥ Prof. T. R. Chobe

Dhamal

Machgar

Dr.

P. Mali

Seema

T. R.



सूचना

08/03/2021

महाविद्यालयशास्त्रीय अधीनस्थ विभाग आनी वाणिज्य विभागा खातीर संयुक्त विद्यमाने ल्होनीवटे course on GST दिनांक 12.3.2021 ते 22.3.2021 या दरम्यान दृष्टान्त युगा 2 आहे. सदर उपक्रम मोफत असून विद्यार्थ्यांचा उपस्थिती, उपस्थिती, अनिवार्य आहे. तसे, इच्छुक विद्यार्थ्यांनी आपली जावे खालीलप्राध्यापकांकडे नोंदवावी.

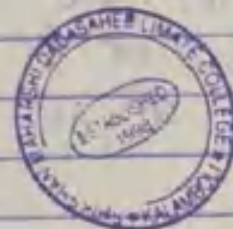
सहभागी विद्यार्थ्यांना उपक्रम पूर्ण झाल्यानंतर प्रमाणपत्र देण्यात येईल याची सर्व विद्यार्थ्यांनी नोंद घ्यावी.

- 1) प्रा. वसुंधरा साळुंखे ~~Barren~~
- 2) प्रा. लालू वैजाली ~~Bhambal~~
- 3) डॉ. आशुतोष की. लुम ~~Bur~~
- 4) प्रा. मणिका 2 जे. डी. ~~Bhambal~~

PRINCIPAL
S.E.S. & S. M. Dadasaheb Limaye
College, Kalamboli,
Tal. Parvel, Dist. Raigad.

TVB Com
SYB Com
F.Y. B Com
TV.B.A. His.
F.Y.B.A.
TV.B.A. (Geo)
SYBA

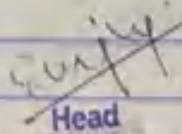
~~Bur~~
~~Bhambal~~
~~Bur~~
~~Bur~~



सूचना

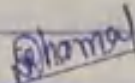
23.03.2021

TVBcom व TVBA ECO च्या सर्व विद्यार्थ्यांना सूचित करण्यात येते की, Dr. Patil of Management Studies या संस्थेच्या वतीने विद्यार्थ्यांना MBA मधील विविध विविध specializations च्या विषयी मार्गदर्शन करण्यात येणार आहे. यासाठी डॉ. प्रदीप माजरेकर Ex. Dean of Dr. Patil of Management Studies यांचे वेबिनार (online) दि-25-03-2021 रोजी स. 10-30 वन वाजता आयोजित करण्यात आले आहे. तरी सर्व विद्यार्थ्यांना उपस्थित राहावे.

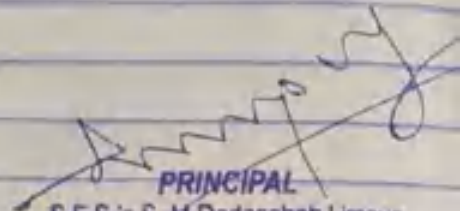

Head

Department of Economics
S. M. D. L. College, Kalamboli.

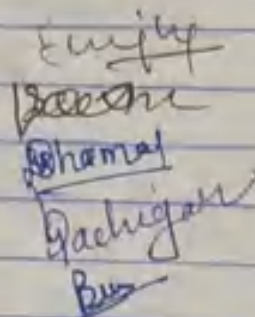
Economics


Head

Department of Commerce
S. M. D. L. College, Kalamboli.
Commerce


PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli.
Tal : Parvel, Dist. Raigad.
प्राचार्य

प्रा. महाजन मुझू की
प्रा. साळुंखे वी. डी
प्रा. धमाळ वी. आर
प्रा. मच्छीगड जे. डी
डा. आशेरे वी. मम
प्रा.


Bus



05/04/2021

Notice:

All TVBCom students informed that tomorrow is parents & ~~their~~ teachers' students online meeting held on 6/04/2021 at 9:30 a.m. with principal Sir and all TVBCom. teachers. So please tell your parents to attend meetings. We will send you link for meeting five minutes before.

12 V.R. Shamal ~~Shamal~~

17 J.D. Machigae

37 P.P. Mali

42 T.R. Chobey

57 Seema Pawar

67 B.M. Arote

~~B.M.~~

~~Machigae~~

~~P.Mali~~

~~T.R.~~

~~Pawar~~

~~B.M.~~

~~Principal~~

PRINCIPAL

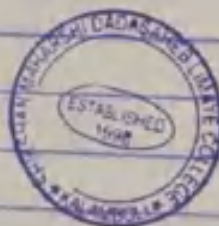
S.E.S.'S. M. Dadasaheb Limaye
College, Kalamboli,
Tal: Panvel, Dist: Raigad

~~Shamal~~

Head

Department of Commerce
S.M.D.L. College, Kalamboli

H.O.D.



Notice

19/01/21

19/04/2021

All faculty / Teachers of Commerce department to informed 2nd semester end meeting will be held on 20/04/2021 at 11:00 am on google meet kindly please attend the meeting.

H.O.D.

Head
Department of Commerce
S.M.D.L College, Kalamboli.

1. V. R. Dhamal
2. J. D. Machigae
3. B. M. Arote
4. P. P. Mali.
5. Seema Pawar
6. T. R. Chobey

H.O.D.

Principals

Bun

Pmali

Spanat

Tp

Principal

PRINCIPAL

S.E.S. & S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

minutes of the meetings

1. Discussion on the syllabus completion.
2. Discussion on revision of syllabus.

SYLLABUS COMPLETION REPORT

Academic Year 2020-21

NAME OF THE TEACHER: Prof. Dr. Manisha Bansode

DEPARTMENT: - Marathi

PROGRAMME: - B. A. Course: Marathi

Sr. No	CLASS	SUBJECT	TOPIC NO.	SEMESTER	SYLLABUS COMPLETED	REMARK
1	FYBA	Marathi compulsory	--	I	YES	
2	SYBA	Marathi - III	--	III	YES	
3	TYBA	Linguistics & Marathi Grammar	--	V	YES	
4	TYBA	Modern Marathi Literature	--	V	YES	
5	TYBA	Occupational Marathi	--	V	YES	

DATE: - 15/12/2020



SUBJECT TEACHER



IQAC CO-ORDINATOR



HEAD OF DEPARTMENT



PRINCIPAL
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SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.



SYLLABUS COMPLETION REPORT

Academic Year: 2020-21

Name of the Teacher: MAHAJAN SANJAY BABURAO

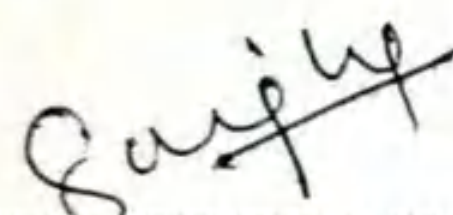
Department of Economics

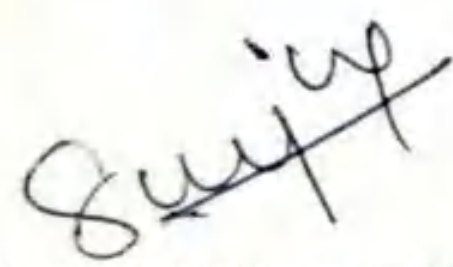
Program: B.A (Arts)

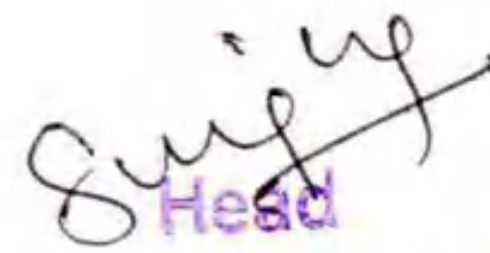
Course: Economics

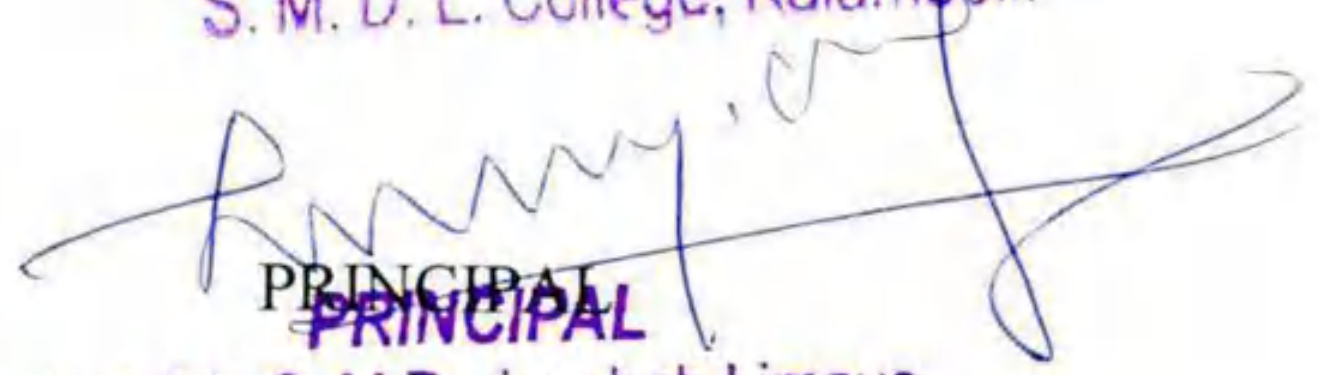
Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1.	S.Y.B.A.	Macroeconomics –II	I st to IV th	IV	Yes	
2.	T.Y.B.A.	Macroeconomics- III, Paper No XIII	I st to IV th	VI	Yes	
3.	T.Y.B.A.	International Economics Paper No. XIV	I st to IV th	VI	Yes	
4.	T.Y.B.A.	Industrial & Labour Economics, Paper No. XV	I st to IV th	VI	Yes	
5.	T.Y.B.A.	Indian Economic Thought Paper No. XVI	I st to IV th	VI	Yes	

DATE: 18/04/2021


SUBJECT TEACHER


IQAC CO-ORDINATOR


HEAD OF DEPARTMENT
Department of Economics
S. M. D. L. College, Kalamboli.


PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

SYLLABUS COMPLETION REPORT

Academic Year: 2020-21

Name of the Teacher: MAHAJAN SANJAY BABURAO

Department of Economics

Program: B.A (Arts)

Course: Economics

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1.	S.Y.B.A.	Macroeconomics –II	I st to IV th	III	Yes	
2.	T.Y.B.A.	Microeconomics- III, Paper No VII	I st to IV th	V	Yes	
3.	T.Y.B.A.	Economics of Development Paper No. VIII	I st to IV th	V	Yes	
4.	T.Y.B.A.	Industrial & Labour Economics, Paper No. IX	I st to IV th	V	Yes	
5.	T.Y.B.A.	Environmental Economics Paper No. XI	I st to IV th	V	Yes	

DATE: 10/12/2020

Sanjay

SUBJECT TEACHER

Sanjay

IQAC CO-ORDINATOR



Sanjay

HEAD OF DEPARTMENT

Sanjay

PRINCIPAL

PRINCIPAL

S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

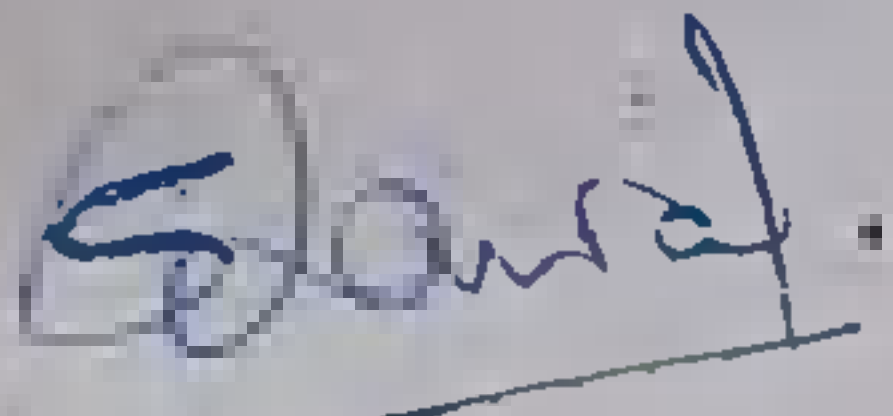
Syllabus Completion Report
Academic Year 2020-2021

Name of Teacher Seema M Rawat
Department English

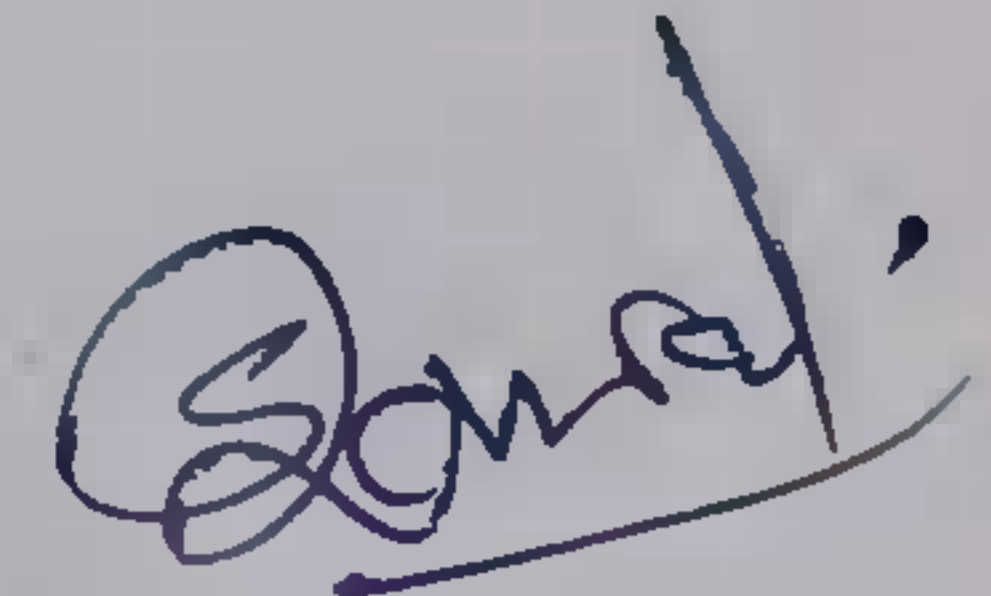
Program FYB.A
Course B.A-UBARTFSII.4

Sr. No.	Class	Subject	Topic	Semester	Syllabus Completed	Remark
1	FY BA	Communication skills in English	I TO IV	II	Yes	

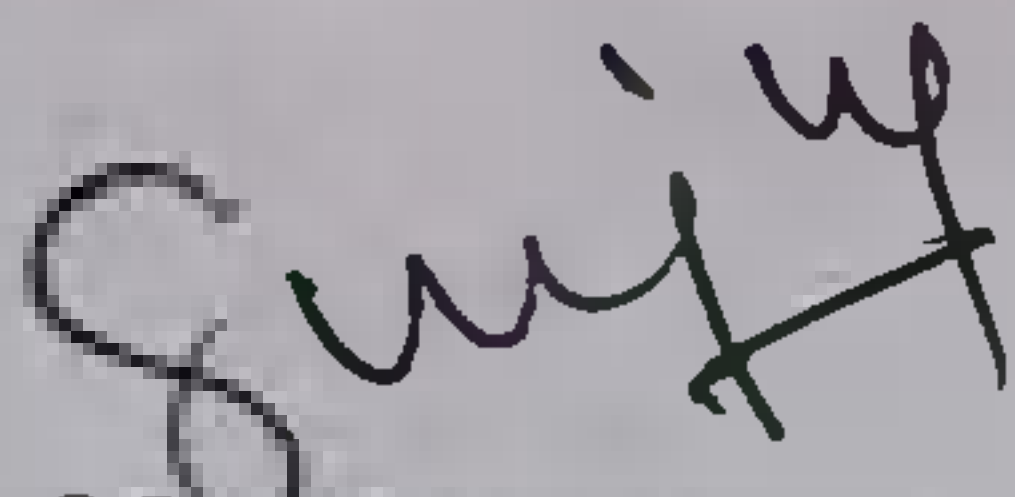
Date: 24-03-2021



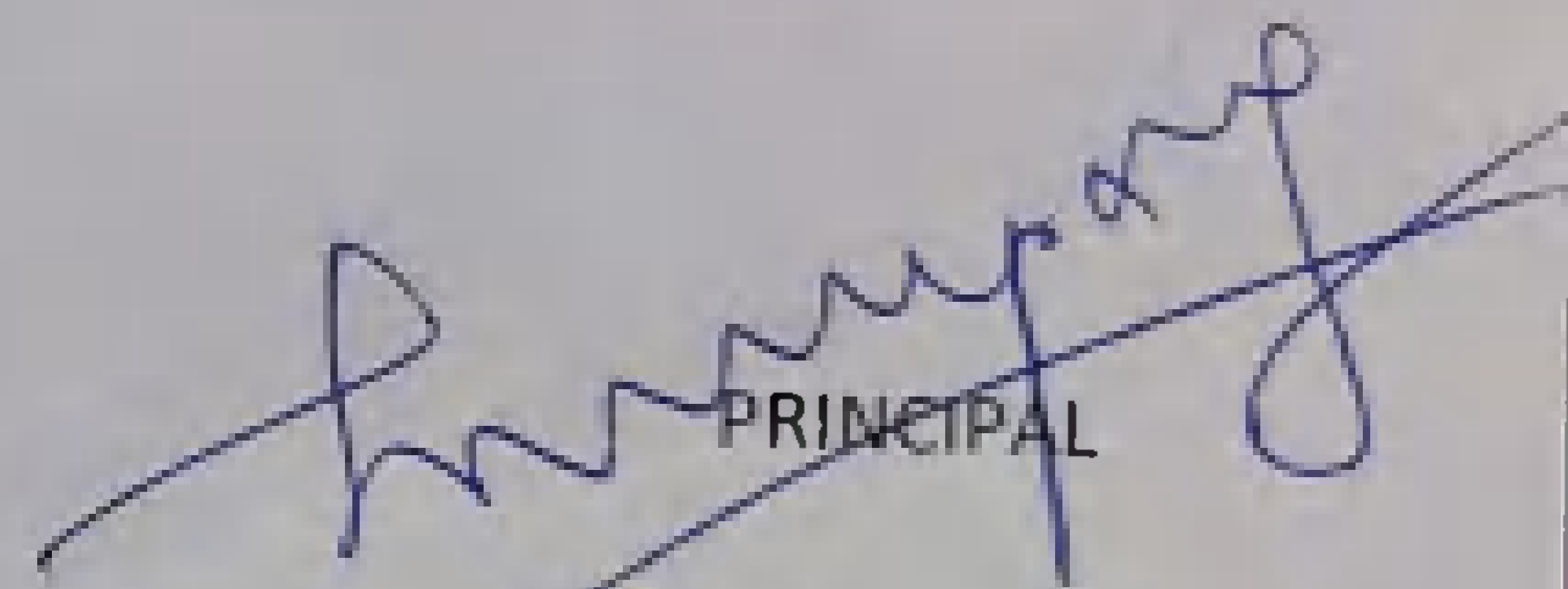
SUBJECT TEACHER



HOD



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PRINCIPAL

SES'S S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal.- Panvel, Dist. - Raigad.

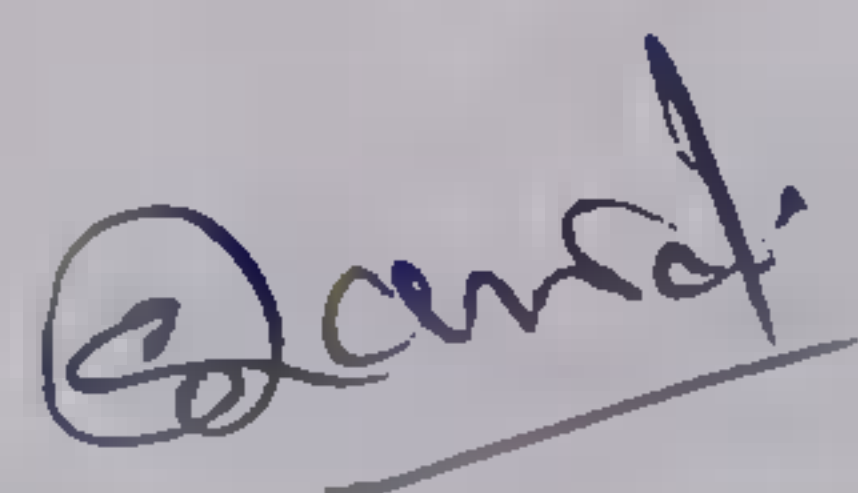
Syllabus Completion Report
Academic Year 2020-2021

Name of Teacher Seema M Rawat
Department English

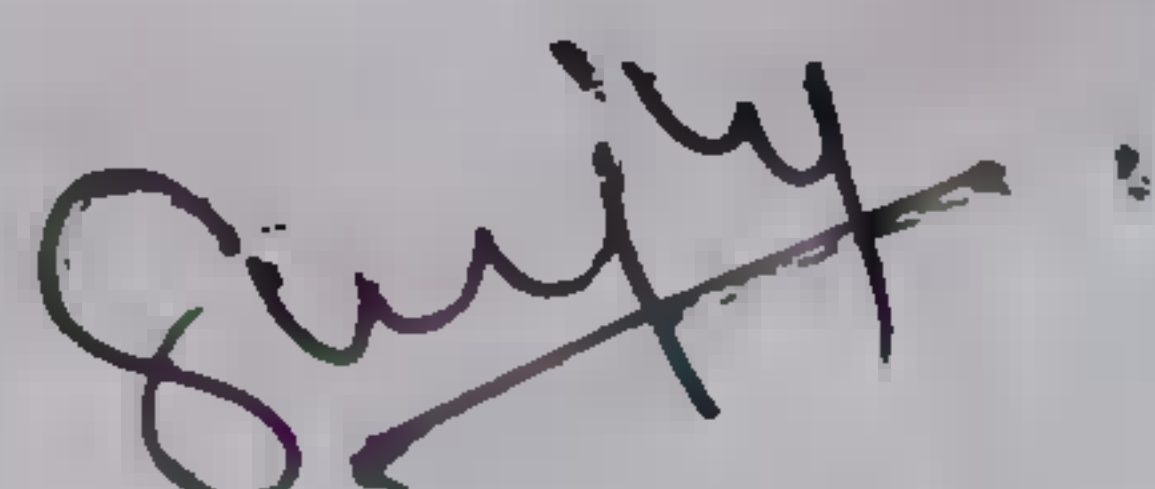
Program FYB.A
Course B.A-UBARTFSI.4

Sr. No.	Class	Subject	Topic	Semester	Syllabus Completed	Remark
1	FY BA	Communication skills in English	I TO IV	I	Yes	

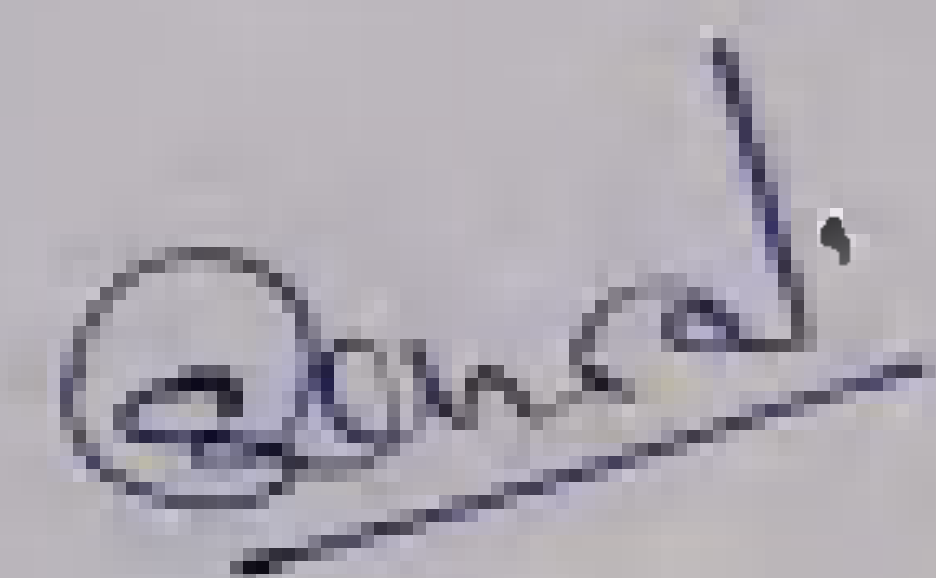
Date: 18-12-2021



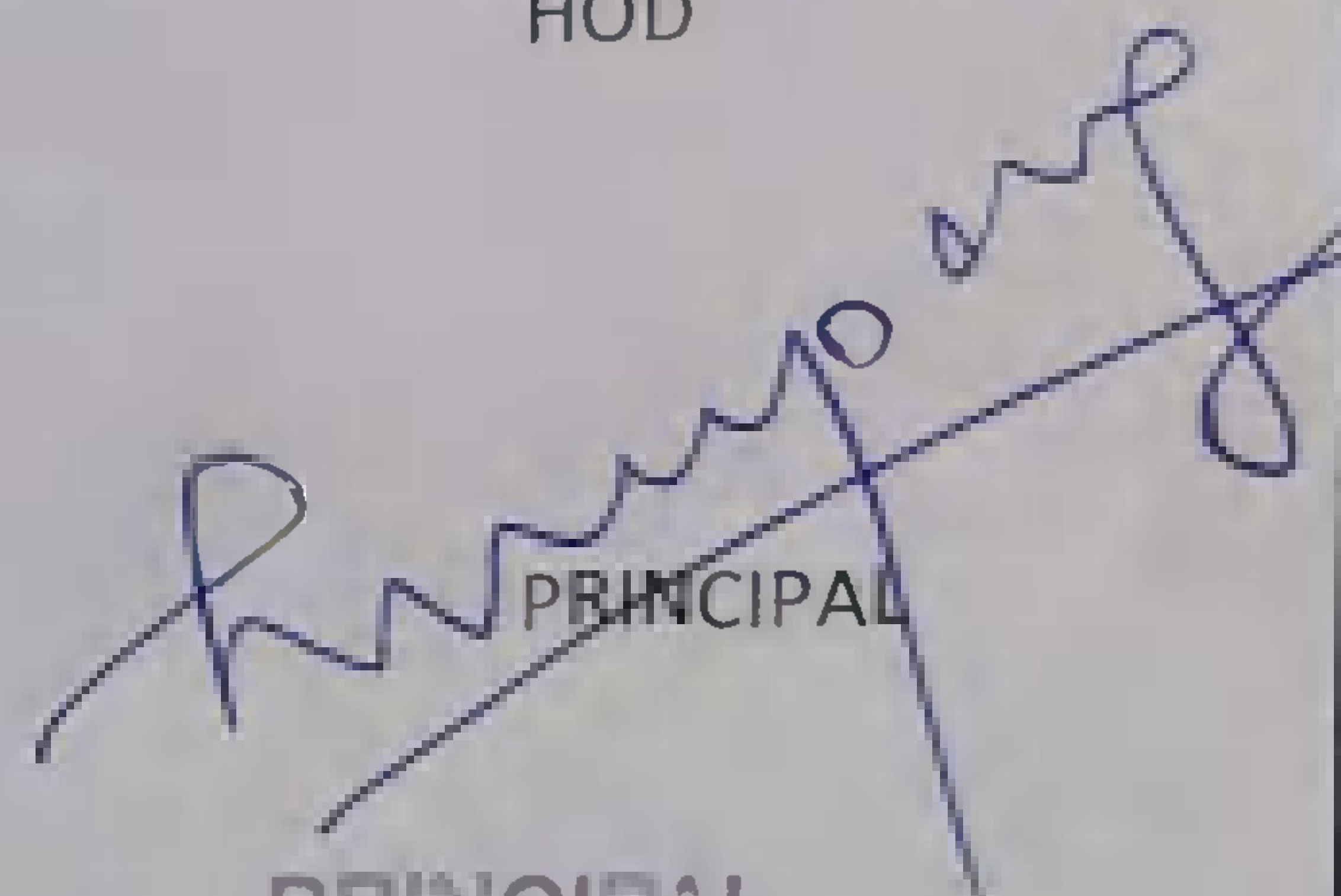
SUBJECT TEACHER



IQAC CO-ORDINATOR



HOD



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SES'S S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal.- Panvel, Dist. - Raigad.



Syllabus Completion Report

Academic Year : 2020-21

Name of the Teacher: Mali Pratiksha Pandharinath

Department of : Geography

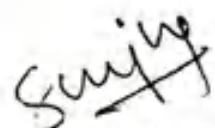
Program: B.A. (Arts)


Course : Geography

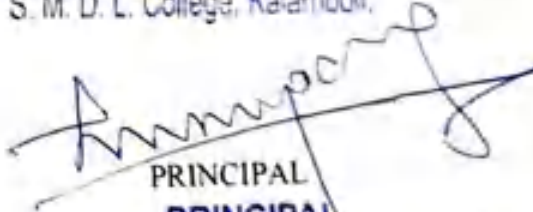
Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1.	F.Y.Bcom	Environmental Studies	I st to IV th	I	Yes	
2.	T.Y.B.A.	Geography of Maharashtra	I st to V th	V	Yes	
3.	T.Y.B.A.	Tools and Techniques in Geography for Spatial Analysis - I	I st to V th	V	Yes	
4.	T.Y.B.A.	Regional Planning & Development	I st to V th	V	Yes	
5.	T.Y.B.A.	Geography of Resources	I st to V th	V	Yes	
6.	T.Y.B.A.	Geospatial Technology	I st to V th	V	Yes	

Date: December 2020


SUBJECT TEACHER


IQAC CO-ORDINATOR
Co - ordinator - IQAC
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist - Raigad.


Head
Department of Geography
S. M. D. L. College, Kalamboli.


PRINCIPAL
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.



Syllabus Completion Report

Academic Year: 2020-21

Name of the Teacher: Mali Pratiksha Pandharinath

Department of : Geography

Program: B.A. (Arts)

Course : Geography

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1.	F.Y.Bcom	Environmental Studies	1 st to V th	II	Yes	
2.	T.Y.B.A.	Political Geography	1 st to V th	VI	Yes	
3.	T.Y.B.A.	Tools and Techniques in Geography for Spatial Analysis – II	1 st to V th	VI	Yes	
4.	T.Y.B.A.	Economic Geography	1 st to V th	VI	Yes	
5.	T.Y.B.A.	Social Geography	1 st to V th	VI	Yes	
6.	T.Y.B.A.	Project Report	1 st to V th	VI	Yes	

Date: April 2021

P. Mali
SUBJECT TEACHER

P. Mahajan
Head
Department of Geography
HEAD OF DEPARTMENT
G. M. D. L. College, Kalamboli

S. M. Limaye
IQAC CO-ORDINATOR
Co - ordinator - IQAC
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist - Raigad.

A. M. Limaye
PRINCIPAL
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.



SES's
Shikshan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboili

Syllabus Completion Report

Academic Year : 2020 - 2021

Name of the Teacher- Dr. GAIKWAD S. K

Department of : HISTORY

Program: B.A.

Course : HISTORY

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
2	S.Y.B.A.	HISTORY OF ANCIENT INDIA (From Earliest Times To 1000 A.D.)	1 TO IV	IV	Yes	
4	T.Y.B.A.	History of the Mughal Rule (1526 A.D.- 1707)	1 TO IV	VI	Yes	
6	T.Y.B.A.	Introduction to Museology and Archival Science VI	1 TO IV	VI	Yes	
8	T.Y.B.A.	History of Asia (1945 CE -2000 CE)	1 TO IV	VI	Yes	

Date: _____

SUBJECT TEACHER

IQAC CO-ORDINATOR

HEAD OF DEPARTMENT

PRINCIPAL

B.E.S.S. S. M. Dadasaheb Limaye
College, Kalamboili,
Tal : Panvel, Dist : Raigad.



SES's
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalambohi

Syllabus Completion Report

Academic Year : 2020 - 2021

Name of the Teacher- Dr. GAIKWAD S. K

Department of : HISTORY

Program: B.A.

Course : HISTORY

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
2	S.Y.B.A.	HISTORY OF ANCIENT INDIA (From Earliest Times To 1000 A.D.)	ITO IV	IV	Yes	
4	T.Y.B.A.	History of the Mughal Rule (1526 A.D.- 1707)	ITO IV	VI	Yes	
6	T.Y.B.A.	Introduction to Museology and Archival Science VI	ITO IV	VI	Yes	
8	T.Y.B.A.	History of Asia (1945 CE -2000 CE)	ITO IV	VI	Yes	

Date:

SUBJECT TEACHER

IOAC CO-ORDINATOR



HEAD OF DEPARTMENT

PRINCIPAL
PRINCIPAL

S. E. S. S. M. Dadasaheb Limaye
College, Kalambohi,
Tal : Panvel, Dist : Raigad.

SES's
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalamboli.
Syllabus Completion Report

Academic Year :2020 - 2021

Name of the Teacher- Dr. GAIKWAD S. K

Department of : HISTORY

Program: B.A.

Course: HISTORY

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1	S.Y.B.A.	HISTORY OF ANCIENT INDIA (From Earliest Times To 1000 A.D.)	ITO IV	III	Yes	
2	T.Y.B.A.	History of the Sultanate Period (1000A.D.1526	ITO IV	V	Yes	
3	T.Y.B.A.	Archaeology and Historical Tourism	ITO IV	V	Yes	
4	T.Y.B.A.	History of Contemporary World(1945A.D. - 2000 A.D.)	ITO IV	V	Yes	

Date:

SUBJECT TEACHER

IQAC CO-ORDINATOR

HEAD OF DEPARTMENT



PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal: Panvel, Dist: Raigad

SES's
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science College, Kalambohi.
Syllabus Completion Report

Academic Year :2020 - 2021

Name of the Teacher- Dr. GAIKWAD S. K

Department of : HISTORY

Program: B.A.

Course: HISTORY

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1	S.Y.B.A.	HISTORY OF ANCIENT INDIA (From Earliest Times To 1000 A.D.)	1 TO IV	III	Yes	
2	T.Y.B.A.	History of the Sultanate Period (1000A.D. 1526	1 TO IV	V	Yes	
3	T.Y.B.A.	Archaeology and Historical Tourism	1 TO IV	V	Yes	
4	T.Y.B.A.	History of Contemporary World(1945A.D. - 2000 A.D.)	1 TO IV	V	Yes	

Date:

SUBJECT TEACHER

KQAC CO-ORDINATOR



HEAD OF DEPARTMENT

PRINCIPAL

S. E. S. S. M. Dadasaheb Limaye
College, Kalambohi,
Tal: Panvel, Dist: Raigad.

Syllabus Completion Report

Academic Year :2020 - 2021

Name of the Teacher - Dr. JADHAV B. B.

Department of :HISTORY

Program: B.A.

Course ::HISTORY

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1	F.Y.B.A.	History of Modern India (1857-1947)	ITO IV	I	Yes	
2	S.Y.B.A.	Landmarks in World History, 1300 A.D.-1945 A.D.	ITO IV	III	Yes	
3	T.Y.B.A.	Core Course V: History of Modern Maharashtra (1818 CE-1960 CE)	ITO IV	V	Yes	
4	T.Y.B.A.	Core Course VII- History of the Marathas (1630 CE - 1707CE)	ITO IV	V	Yes	
5	T.Y.B.A.	Elective Course IX A - Research Methodology and Sources of History	ITO IV	V	Yes	

Date: 31/12/2020

SUBJECT TEACHER

IQAC CO-ORDINATOR



HEAD OF DEPARTMENT

Head
Department of History
S. M. D. L. College, Kalambohi

PRINCIPAL

Principal
S. M. D. L. College, Kalambohi
ACS College, Kalambohi,
Tal. - Panvel, Dist. - Raigad.

Syllabus Completion Report

Academic Year :2020 - 2021

Name of the Teacher- - Dr. JADHAV B. B.

Department of: HISTORY

Program: B.A.

Course :: HISTORY

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1	F.Y.B.A.	History of Modern India: Society and Economy	ITO IV	II	Yes	
2	S.Y.B.A.	Landmarks in World History, 1300 A.D.-1945 A.D.	ITO IV	IV	Yes	
3	T.Y.B.A.	Core Course V: History of Contemporary India (1947 CE-2000 CE)	ITO IV	VI	Yes	
4	T.Y.B.A.	Core Course VII: History of the Marathas (1707 CE - 1818 CE)	ITO IV	VI	Yes	
5	T.Y.B.A.	Elective Course IX A - Research Methodology and Sources of History	ITO IV	VI	Yes	

Date: 31/05/2021

SUBJECT TEACHER

IQAC CO-ORDINATOR



HEAD OF DEPARTMENT

PRINCIPAL

PRINCIPAL

SEC'S B-11, Kalyan, Dist. - Palghat.
ACS College, Kalyan, Dist. - Palghat.

Syllabus Completion Report

Academic Year :2020 - 2021

Name of the Teacher- - Dr. JADHAV B. B.

Department of : HISTORY

Program: M.A.

Course - HISTORY

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1	M.A. I	Research Methods in History	I TO IV	I	Yes	
2	M.A. I	Socio, Eco. & Administrative History of Modern India (1757 - 1947CE)	I TO IV	I	Yes	
3	M.A. II	Indian National Movement (1857-1947)	I TO IV	III	Yes	
4	M.A. II	Socio-Eco. & Cultural History of India (1850-1947)	I TO IV	III	Yes	

Date: 31/12/2020

SUBJECT TEACHER

IQAC CO-ORDINATOR

Head

DEPARTMENT
S. M. D. L. College, Kalamboji.

PRINCIPAL

PRINCIPAL

SES'S S. M. Dadasaheb Limaye
ACS College, Kalamboji,
Tal.- Panvel, Dist. - Raigad.



Syllabus Completion Report

Academic Year :2020 - 2021

Name of the Teacher- - Dr. JADHAV B. B.

Department of : HISTORY

Program: M.A.

Course :: HISTORY

Sr. No.	Class	Subject	Topic No.	Semester	Syllabus Completed	Remark
1	M.A. I	Philosophy of History	ITO IV	II	Yes	
2	M.A. I	History of Contemporary India (1947 CE - 2000 CE)	ITO IV	II	Yes	
3	M.A. II	Sources in Historical Research	ITO IV	IV	Yes	
4	M.A. II	The Project based course will be conducted as per the Guidelines and Regulations of the University of Mumbai	ITO IV	IV	Yes	

Date: 31/05/2021.

[Signature]
SUBJECT TEACHER

[Signature]
IQAC CO-ORDINATOR



[Signature]
HEAD OF DEPARTMENT
S. M. D. L. College, Kalambooli

[Signature]
PRINCIPAL

PRINCIPAL
SES/S. M. Dadasaheb Limaye
ACS College, Kalambooli,
Tal.- Panvel, Dist. - Raigad.

SYLLABUS COMPLETION REPORT

Academic Year 2020-21

NAME OF THE TEACHER - Dr. Bharti Arjole

DEPARTMENT:- Commerce PROGRAMME:- B. Com Course: Commerce

Sr. No	CLASS	SUBJECT	TOPIC NO.	SEMESTER	SYLLABUS COMPLETED	REMARK
1	FYBCOM	Business Economics -I	I TO IV	I	YES	
2	FYBCOM	Foundation Course-I	I TO IV	I	YES	
3	SYBCOM	Business Economics -III	I TO IV	III	YES	
4	SYBCOM	Introduction to Management Accounting	I TO IV	III	YES	
5	TYBCOM	Business Economics -V	I TO IV	V	YES	
6	TYBCOM	Direct & Indirect Tax	I TO IV	V	YES	

DATE:- 12/12/2020

SUBJECT TEACHER

DAC CO-ORDINATOR

HEAD OF DEPARTMENT

Department of Commerce
S. M. D. L College, Kalamboli.

PRINCIPAL

S.E.S.'s S. M. Dadasaheb Limaye,
College, Kalamboli,
Tal - Panvel, Dist - Raigad.



Syllabus Completion Report
Academic Year 2020-2021

Name of Teacher Seema M Rawat
Department Commerce

Program FY B.COM
Course UBCOMFSI.4

Sr. No.	Class	Subject	Topic	Semester	Syllabus Completed	Remark
1	FY B.COM	Business Communication	1 TO IV	I	Yes	

Date: 16-12-2021

S. M. Rawat

SUBJECT TEACHER

G. V. V.

IQAC CO-ORDINATOR



S. M. Rawat
Head
Commerce
Kalamboli.
[Signature]
PRINCIPAL

PRINCIPAL
SES'S S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal.- Panvel, Dist. - Raigad.

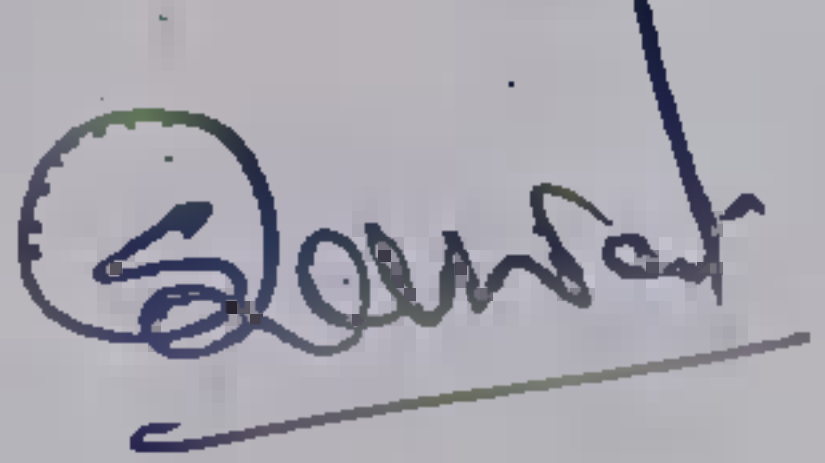
Syllabus Completion Report
Academic Year 2020-2021

Name of Teacher Seema M Rawat
Department Commerce

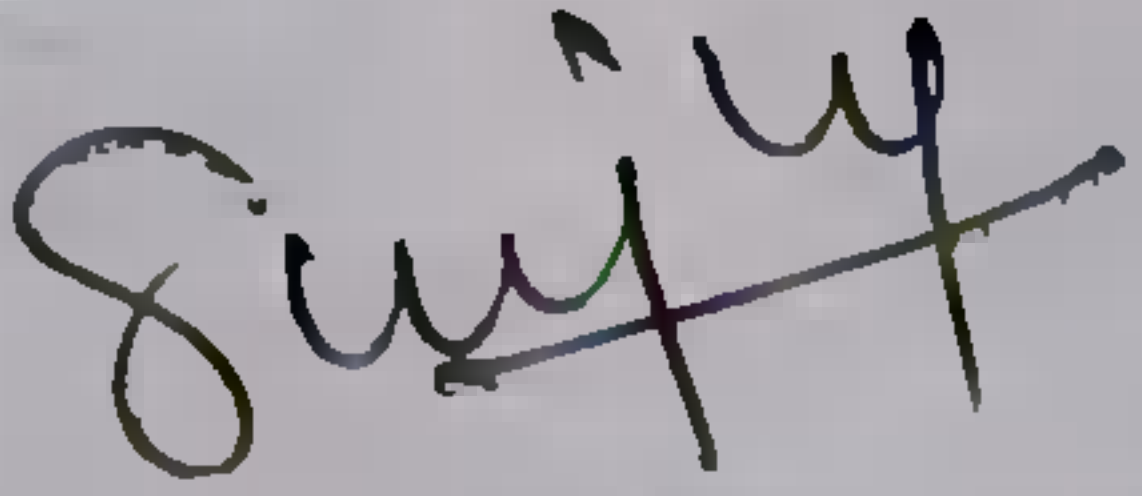
Program FY B.COM
Course UBCOMFSII.4

Sr. No.	Class	Subject	Topic	Semester	Syllabus Completed	Remark
1	FY B.COM	Business Communication	I TO IV	II	Yes	

Date:

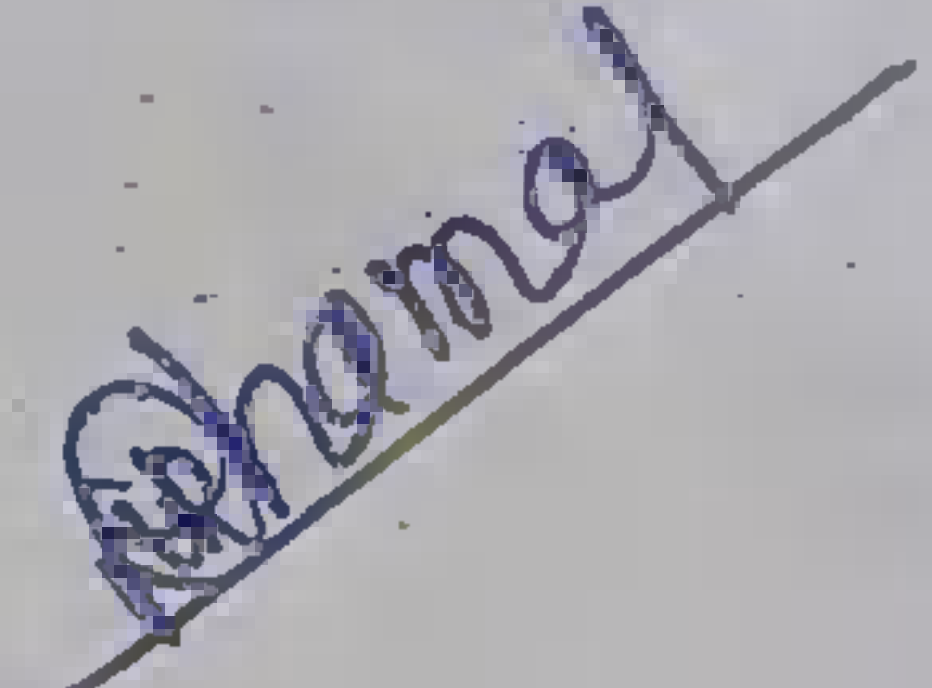


SUBJECT TEACHER



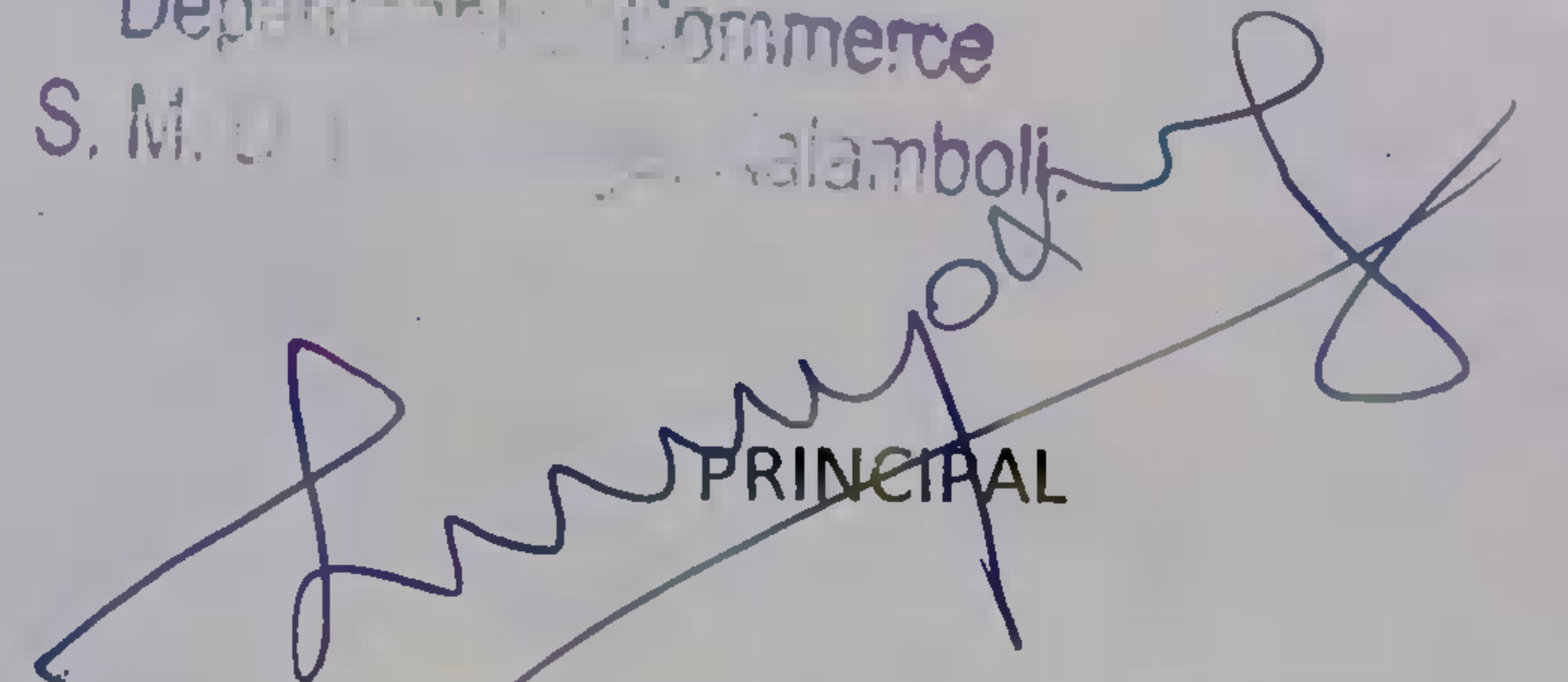
IQAC CO-ORDINATOR





Head HOD

Department of Commerce
S. M. D. Kalamboli



PRINCIPAL

PRINCIPAL

SES S. S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal.- Panvel, Dist. - Raigad.

Syllabus completion Report

Academic Year 2020-2021

Name of Teacher- J.D.Machigar

Department of : Commerce

Program: B.com

Course: Commerce

Sr.no.	Class	SUBJECT	Topic no.	Semester	Syllabus Completed	Remark
1	FY.BCOM	Accounting and finance mgt-II	I TO IV	II	Yes	
2	SY.BCOM	Business Law-II	I TO IV	IV	Yes	
3	SY.BCOM	Accounting and Finance mgt - IV	I TO IV	IV	Yes	
4	TY.BCOM	Financial Accounting and Auditing -IX	I TO IV	VI	Yes	
5	TY.BCOM	Commerce -VI	I TO IV	VI	yes	

Date: 15/04/2021

J.D. Machigar

SUBJECT TEACHER

(*Prof. J.D. Machigar*)

Swamy
IQAC CO-ORDINATOR

Samal
HEAD OF DEPARTMENT
Head

Department of Commerce
S. M. D. L. College, Kalamboli
PRINCIPAL

Swamy
PRINCIPAL
S.E.S. S. M. Dadasaheb
College, Kalamboli

Tal: Palghat, Dist: Kollam

Syllabus completion Report

Academic Year 2020-2021

Name of Teacher- J.D.Machigar

Department of : Commerce

Program: B.com

Course: Commerce

Sr.no.	Class	SUBJECT	Topic no.	Semester	Syllabus Completed	Remark
1	FY.BCOM	Accounting and finance mgt-I	I TO IV	I	Yes	
2	SY.BCOM	Business Law-I	I TO IV	III	Yes	
3	SY.BCOM	Accounting and Finance mgt - III	I TO IV	III	Yes	
4	TY.BCOM	Financial Accounting and Auditing -VII	I TO IV	V	Yes	
5	TY.BCOM	Commerce -V	I TO IV	V	yes	

Date: 30/11/2020

J.D.Machigar

SUBJECT TEACHER

(Prof. J.D.Machigar)

Swig

IQAC CO-ORDINATOR

Kshama
HEAD OF DEPARTMENT

Department of Commerce
S. M. D. L. College, Kalamboli.

PRINCIPAL

Amey
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Unwale
College, Kalamboli
Tal : Panvel, Dist : Thane



SYLLABUS COMPLETION REPORT

Academic Year 2020-21

NAME OF THE TEACHER: Prof. Mrs. Vaishali Ramdas Dhamal

DEPARTMENT: - Commerce PROGRAMME: - B. Com Course: Commerce

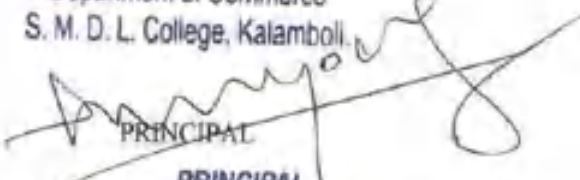
Sr. No	CLASS	SUBJECT	TOPIC NO.	SEMESTER	SYLLABUS COMPLETED	REMARK
1	FYBCOM	Commerce I	I TO IV	I	YES	
2	SYBCOM	Commerce III	I TO IV	III	YES	
3	SYBCOM	Advertising -I	I TO IV	III	YES	
4	TYBCOM	Financial Accounting and Auditing-Cost Accounting	I TO IV	V	YES	
5	TYBCOM	Export Marketing I	I TO IV	V	YES	

DATE: - 12/12/2020


SUBJECT TEACHER


IQAC CO-ORDINATOR


Head
HEAD OF DEPARTMENT
Department of Commerce
S. M. D. L. College, Kalamboli.


PRINCIPAL
PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.



SYLLABUS COMPLETION REPORT

Academic Year 2020-21

NAME OF THE TEACHER: : Prof. Mrs. Vaishali Ramdas Dhamal

DEPARTMENT: - Commerce PROGRAMME: - B. Com Course: Commerce

Sr. No	CLASS	SUBJECT	TOPIC NO.	SEMESTER	SYLLABUS COMPLETED	REMARK
1	FYBCOM	Commerce I	I TO IV	II	YES	
2	SYBCOM	Commerce III	I TO IV	IV	YES	
3	SYBCOM	Advertising -II	I TO IV	IV	YES	
4	TYBCOM	Financial Accounting and Auditing-Cost Accounting	I TO IV	VI	YES	
5	TYBCOM	Export Marketing II	I TO IV	VI	YES	

DATE:- 20/04/2021

Dhamal
SUBJECT TEACHER

guyy
IQAC CO-ORDINATOR



Dhamal
Head
HEAD OF DEPARTMENT
Department of Commerce
S. M. D. L. College, Kalamboli.

[Signature]
PRINCIPAL
PRINCIPAL
S.E.S.'s S. M.Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

SYLLABUS COMPLETION REPORT

Academic Year : 2020-21

Name of the Teacher : Mr. Aniket Gaikwad

Department of Chemistry

Program : B.Sc. (Science)

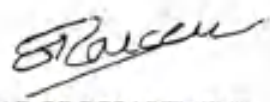
Course : Chemistry

Sr. No.	Class	Subject	Unit No.	Semester	Syllabus Completed	Remark
1	F.Y.B.Sc.	Organic Chemistry	1 & 2	II	Yes	
2	S. Y. B.Sc.	Organic Chemistry	1,2,3	IV	Yes	
3	T. Y. B.Sc.	Organic Chemistry	1,2,3,4	VI	Yes	

DATE : 24/03/2021



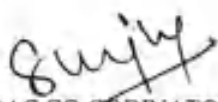
SUBJECT TEACHER



HEAD OF DEPARTMENT

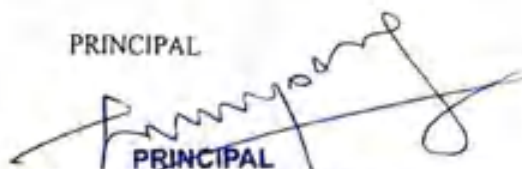
Head

Department of Chemistry
S. M. D. L. College, Kalamboli.



IQAC CO-ORDINATOR

PRINCIPAL



PRINCIPAL

SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.

Co - ordinator - IQAC
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist - Raigad.

SES
SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI

Date: 24/03/2020

To,
The Principal,
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of F. Y. B. Sc. Sem. II
Chemistry .**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my F. Y. B. Sc.
Sem. II Chemistry syllabus by teaching in stipulated time.

Class: F. Y. B. Sc. (Chemistry)

Semester: SECOND

Subject Name: Organic Chemistry

Academic Year: 2020-21



Mr. Aniket Gaikwad

SES
SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI

Date: 24/03/2021

To,
The Principal,
S.M.D.L. College.

Subject: Regarding the completion of the teaching the syllabus of S.Y.B.Sc. Sem IV

Chemistry.

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my S.Y.B. Sc.
Sem. IV Chemistry syllabus by teaching in stipulated time.

Class: S.Y.B.Sc. (Chemistry)

Semester: FOURTH

Subject Name: Organic Chemistry

Academic Year: 2020-21


Mr. Aniket Gaikwad

SES
SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI

Date: 24/03/21

To,
The Principal,
S.M.D.L. College.

Subject: Regarding the completion of the teaching the syllabus of T.Y.B.Sc. Sem VI

Chemistry .

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my T.Y.B. Sc. Sem. VI Chemistry syllabus by teaching in stipulated time.

Class: T.Y.B.Sc.Chemistry

Semester: SIXTH

Subject Name: Organic Chemistry

Academic Year: 2020-21


Mr. Aniket Gaikwad

SYLLABUS COMPLETION REPORT

Academic Year : 2020-21

Name of the Teacher : Mr. Aniket Gaikwad

Department of Chemistry

Program : B.Sc. (Science)

Course : Chemistry

Sr. No.	Class	Subject	Unit No.	Semester	Syllabus Completed	Remark
1	F.Y.B.Sc.	Organic Chemistry	1 & 2	I	Yes	
2	S. Y. B.Sc.	Organic Chemistry	1,2,3	III	Yes	
3	T. Y. B.Sc.	Organic Chemistry	1,2,3,4	V	Yes	

DATE: 28/12/2020

SUBJECT TEACHER

HEAD OF DEPARTMENT

Head

Department of Chemistry

S. M. D. L. College, Kalamboli

IQAC CO-ORDINATOR

PRINCIPAL

PRINCIPAL

Co-ordinator - IQAC
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist - Raigad.

SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist - Raigad.

**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 28/12/2020

To,
The Principal,
S.M.D.L. College.

Subject: Regarding the completion of the teaching the syllabus of F. Y. B. Sc. Sem. I

Chemistry .

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my F. Y. B. Sc. Sem. I Chemistry syllabus by teaching in stipulated time.

Class: F. Y. B. Sc. (Chemistry)

Semester: FIRST

Subject Name: Organic Chemistry

Academic Year: 2020-21



Mr. Aniket Gaikwad

SES
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 28/12/20

To,
The Principal,
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of S.Y.B.Sc. Sem III
Chemistry.**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my S.Y.B. Sc.
Sem. III Chemistry syllabus by teaching in stipulated time.

Class: S.Y.B.Sc. (Chemistry)

Semester: THIRD

Subject Name: Organic Chemistry

Academic Year: 2020-21



Mr. Aniket Gaikwad

SES
**SHIKSHAN MAHARSHI DADASAHEB LIMAYE COLLEGE,
ARTS, COMMERCE & SCIENCE COLLEGE, KALAMBOLI**

Date: 28/12/20

To,
The Principal,
S.M.D.L. College.

**Subject: Regarding the completion of the teaching the syllabus of T.Y.B.Sc. Sem V
Chemistry .**

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my **T.Y.B. Sc. Sem. V Chemistry** syllabus by teaching in stipulated time.

Class: T.Y.B.Sc. Chemistry

Semester: FIFTH

Subject Name: Organic Chemistry

Academic Year: 2020-21



Mr. Aniket Gaikwad

SYLLABUS COMPLETION REPORT

Academic year:2020-21

Name of teacher: Dr. Usha Rajiv Sainger

Department of Foundation Course

Program: B.Sc.(plain)

Course:F.C.

Sr. no.	class	subject	No. of topics	Semester	Syllabus completed	remark
1.	S.Y.B.Sc.	UNIT-I (HUMAN RIGHTS VIOLATION AND REDRESSAL)	4	3	Yes	
2.	S.Y.B.Sc.	UNIT II- DEALING WITH ENVIRONMENTAL CONCERNS	5	3	Yes	
3.	S.Y.B.Sc.	UNIT III - SCIENCE AND TECHNOLOGY	5	3	Yes	
4.	S.Y.B.Sc.	UNIT IV - SOFT SKILLS FOR INTERPERSONAL COMMUNICATION	2	3	Yes	
5.	S.Y.B.Sc.	Unit I- SIGNIFICANT RIGHTS OF CITIZENS	3	4	Yes	
6.	S.Y.B.Sc.	Unit II- ECOLOGY: APPROACHES, ETHICS AND ISSUES	3	4	Yes	

7.	S.Y.B.Sc.	Unit III -SCIENCE AND TECHNOLOGY II	3	4	Yes	
8.	S.Y.B.Sc.	Unit IV INTRODUCTION TO COMPETITIVE EXAMS	2	4	Yes	

DATE:

[Signature]

SUBJECT TEACHER

[Signature]

IQAC COORDINATOR



[Signature]

HEAD OF DEPARTMENT

[Signature]

PRINCIPAL

PRINCIPAL

SES'S S. M. Dadasaheb Umaye
ACS College, Panvel,
Tal.- Panvel, Dist. - Thane.

SYLLABUS COMPLETION REPORT

Academic Year : 2020-2021

Name of the Teacher : Sonawane Chandani

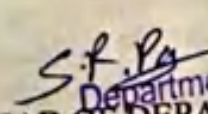
Department : Chemistry Program : B.Sc. (Science) Course : Chemistry

Sr. No.	Class	Subject	Unit No.	Semester	Syllabus Completed	Remark
1	F.Y.B.Sc.	Physical Chemistry	I to IV	I	Yes	
2	F.Y.B.Sc.	Physical Chemistry	Practicals	I	No	
3	S. Y. B.Sc.	Physical Chemistry	I to IV	III	Yes	
4	S. Y. B.Sc.	Physical Chemistry	Practicals	III	No	
5	T. Y. B.Sc.	Physical Chemistry	I to IV	V	Yes	
6	T. Y. B.Sc.	Physical Chemistry	Practicals	V	no	

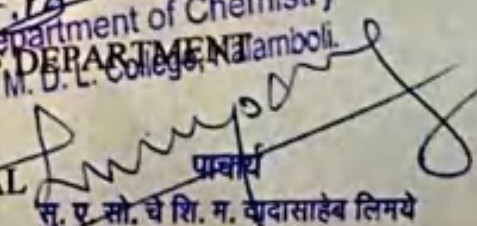
DATE :


SUBJECT TEACHER

IQAC CO-ORDINATOR

 Head
Department of Chemistry
HEAD OF DEPARTMENT
S. M. D. L. College, Namboli.

PRINCIPAL


सु. ए. सो. चे. शि. म. दादासाहेब लिमये
कला, वाणिज्य, विज्ञान महाविद्यालय
कजंबोली, ता. दगवेल, जि. रायगड.



SYLLABUS COMPLETION REPORT

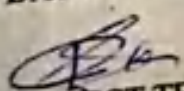
Academic Year : 2020-2021

Name of the Teacher : Sonawane Chandani

Department : Chemistry Program : B.Sc. (Science) Course : Chemistry

Sr. No.	Class	Subject	Unit No.	Semester	Syllabus Completed	Remark
1	F.Y.B.Sc.	Physical Chemistry	I to IV	II	Yes	
2	F.Y.B.Sc.	Physical Chemistry	Practicals	II	No	
3	S. Y. B.Sc.	Physical Chemistry	I to IV	IV	Yes	
4	S. Y. B.Sc.	Physical Chemistry	Practicals	IV	no	
5	T. Y. B.Sc.	Physical Chemistry	I to IV	VI	Yes	
6	T. Y. B.Sc.	Physical Chemistry	Practicals	VI	no	

DATE :


SUBJECT TEACHER

IQAC CO-ORDINATOR


Head
Department of Chemistry
HEAD OF DEPARTMENT
S. M. G. L. College, Kalambur

PRINCIPAL

प्राचार्य

सु. प. सो. जे. शि. म. दादासाहेब विमये
कला, वाणिज्य, विज्ञान महाविद्यालय
कळंबोली, ता. पनवेल, जि. रायगड.



S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

SYLLABUS COMPLETION REPORT

Academic Year: 2020-21

Name of the Teacher: MR. Palkar S.R.


Department of Chemistry

Program: B.Sc. (Science)

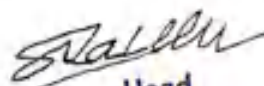
Course: Chemistry

S.N.	Class	Subject	Unit No.	Semester	Syllabus Completed	Remark
1	S.Y.B.Sc.	Analytical Chemistry	1 st to 3 rd (P-III)	III	Yes	
2	S.Y.B.Sc.	Analytical Chemistry	Practicals	III	Yes	
3	T.Y.B.Sc.	Analytical Chemistry	1 st to 4 th	V	Yes	
4	T.Y.B.Sc.	Analytical Chemistry	Practicals	V	Yes	
5	T.Y.B.Sc.	Drugs & Dyes	1 st to 4 th	V	Yes	
6	T.Y.B.Sc.	Drugs & Dyes	Practicals	V	Yes	

Date: 27th November 2020



SUBJECT TEACHER

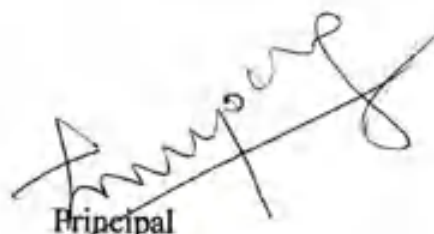


Head

Department of Chemistry

S.M.D.L. College, Kalamboli.

HEAD OF DEPARTMENT



Principal

PRINCIPAL

SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.



S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date: 27th November 2020

To,
The Principal.
S.M.D.L. College.

Subject: Regarding the completion of teaching the syllabus of S.Y.B.Sc. Sem-III

Respected Sir,

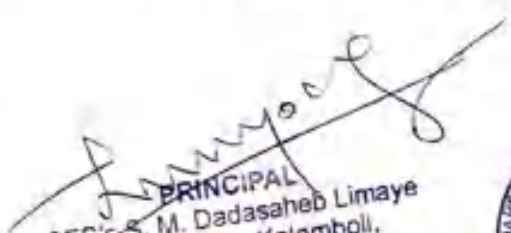
Through this declaration letter, I would like to say that, I have been completed my **S.Y.B.Sc. Semester-III** syllabus by teaching in stipulated time.

Class: S.Y.B.Sc.


Semester: THIRD

Academic Year: 2020-2021

Subject Name: ANALYTICAL CHEMISTRY (UNIT 1 TO 3) Theory & Practicals


PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.




Mr. Palkar Snehal Ram
(Subject Teacher)

S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date : 15th April 2021

To,
The Principal,
S.M.D.L. College,

Subject: Regarding the completion of teaching the syllabus of S.Y.B.Sc. Sem-IV

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my **S.Y.B.Sc. Semester-IV** syllabus by teaching in stipulated time.

Class: S.Y.B.Sc.

Semester: Forth

Academic Year: 2020-2021

Subject Name: ANALYTICAL CHEMISTRY (UNIT 1 TO 3) Theory & Practicals



PRINCIPAL

SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Parvel, Dist : Raigad.





Mr. Palkar Snehal Ram
(Subject Teacher)

S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

SYLLABUS COMPLETION REPORT

Academic Year: 2020-21

Name of the Teacher: MR. Palkar S.R.

Department of Chemistry

Program: B.Sc. (Science)

Course: Chemistry

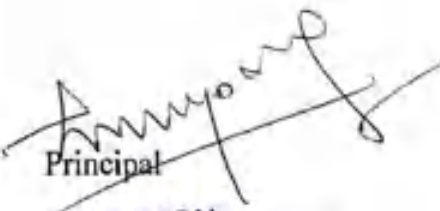
S.N.	Class	Subject	Unit No.	Semester	Syllabus Completed	Remark
1	S.Y.B.Sc.	Analytical Chemistry	1 st to 3 rd (P-III)	IV	Yes	
2	S.Y.B.Sc.	Analytical Chemistry	Practicals	IV	Yes	
3	T.Y.B.Sc.	Analytical Chemistry	1 st to 4 th	VI	Yes	
4	T.Y.B.Sc.	Analytical Chemistry	Practicals	VI	Yes	
5	T.Y.B.Sc.	Drugs & Dyes	1 st to 4 th	VI	Yes	
6	T.Y.B.Sc.	Drugs & Dyes	Practicals	VI	Yes	

Date: 15th April 2021


SUBJECT TEACHER


Head
Department of Chemistry
HEAD OF DEPARTMENT




Principal
PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli.
Tal : Panvel, Dist : Raigad.

S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date: 27th November 2020

To,
The Principal.
S.M.D.L. College.

Subject: Regarding the completion of teaching the syllabus of T.Y.B.Sc. Sem-V

Respected Sir,

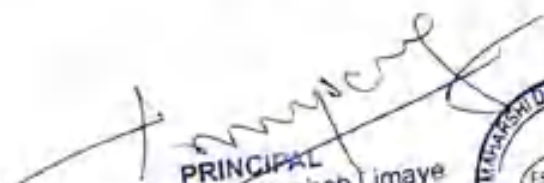
Through this declaration letter, I would like to say that, I have been completed my **T.Y.B.Sc. Semester-V** syllabus by teaching in stipulated time.

Class: T.Y.B.Sc.


Semester: FIFTH

Subject Name: Analytical Chemistry (UNIT 1 TO 4) Theory & Practicals
Drugs & Dyes (Unit 1 to 4) Theory & Practicals

Academic Year: 2020-2021


PRINCIPAL
SES's S. M. Dadasaheb Limaye
AGS College, Kalamboli,
Tal : Panvel, Dist : Raigad.




Mr. Palkar Snehal Ram
(Subject Teacher)

S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date : 15th April 2021

To,
The Principal,
S.M.D.L. College.

Subject: Regarding the completion of teaching the syllabus of T.Y.B.Sc. Sem-VI

Respected Sir,

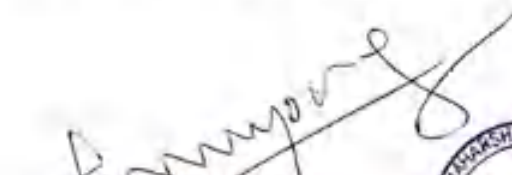
Through this declaration letter, I would like to say that, I have been completed my **T.Y.B.Sc. Semester-VI** syllabus by teaching in stipulated time.

Class: T.Y.B.Sc.

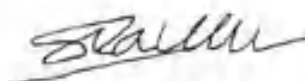
Semester: Sixth

Subject Name: Analytical Chemistry (UNIT 1 TO 4) Theory & Practicals
Drugs & Dyes (Unit 1 to 4) Theory & Practicals

Academic Year: 2020-2021


PRINCIPAL
SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.





Mr. Palkar Snehal Ram
(Subject Teacher)

SYLLABUS COMPLETION REPORT

Academic Year : 2020-2021

Name of the Teacher : Bhagat Varsha S.

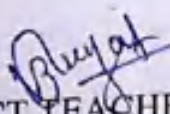
Department : Chemistry


Program : B.Sc. (Science)

Course : Chemistry

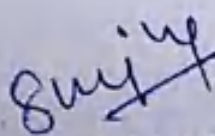
Sr. No.	Class	Subject	Unit No.	Semester	Syllabus Completed	Remark
1	F.Y.B.Sc.	Inorganic Chemistry	II (Paper I & II)	I	Yes	
2	S. Y. B.Sc.	Inorganic Chemistry	II (Paper I & II)	III	Yes	
3	T. Y. B.Sc.	Inorganic Chemistry	I to IV	V	Yes	

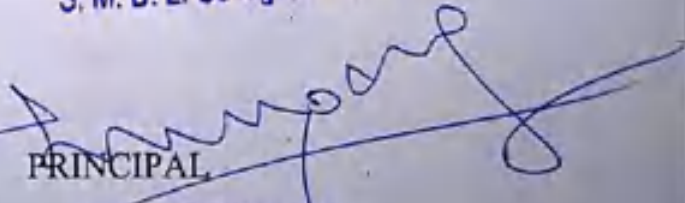
DATE : 09-Nov-2020


SUBJECT TEACHER


HEAD OF ~~HEAD~~ DEPARTMENT
Department of Chemistry
S. M. D. L. College, Kalamboli.




IQAC CO-ORDINATOR
Co-ordinator
Internal Quality Assurance Cell
S. M. D. L. College, Kalamboli.


PRINCIPAL

PRINCIPAL
SES'S S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal - Panvel, Dist. - Raigad.

S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date: 09-Nov-2020

To,

The Principal.
S. M. D. L. College.

Subject : Regarding The completion of teaching the syllabus of F.Y.B.Sc. Semester - I

Respected Sir,

Through this declaration letter, I would like to say that, I have been completed my **F.Y.B.Sc. Semester-I** syllabus by teaching in stipulated time.

Class : F.Y.B.Sc

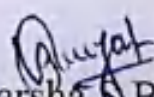
Semester : Semester-I

Subject Name : Inorganic Chemistry [Paper I & II (Unit II)]

Academic Year : 2020-2021



PRINCIPAL
SES'S S. M. Dac
ACS College,
Tal- Panvel, Dist. - H. S. D.



Mrs. Varsha S. Bhagat
(Subject Teacher)



S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date: 09-Nov-2020

To,

The Principal.

S. M. D. L. College.

Subject : Regarding The completion of teaching the syllabus of S.Y.B.Sc. Semester - III

Respected Sir,


Through this declaration letter, I would like to say that, I have been completed my **S.Y.B.Sc. Semester-III** syllabus by teaching in stipulated time.

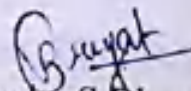
Class : S.Y.B.Sc

Semester : Semester-III

Subject Name : Inorganic Chemistry [Paper I & II (Unit II)]

Academic Year : 2020-2021


PRINCIPAL
S. M. D. L. College
Tal.- Panvel, Dist.- Thane


Mrs. Varsha S. Bhagat
(Subject Teacher)



S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date: 09-Nov-2020

To,
The Principal.
S. M. D. L. College.

**Subject : Regarding The completion of teaching the syllabus of T.Y.B.Sc.
Semester - V**

Respected Sir,


Through this declaration letter, I would like to say that, I have been completed my **T.Y.B.Sc. Semester-V** Syllabus by teaching in stipulated time.

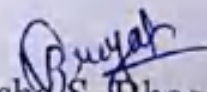
Class : T.Y.B.Sc

Semester : Semester-V

Subject Name : Inorganic Chemistry (Unit I to IV)

Academic Year : 2020-2021


PRINCIPAL
S. M. Dadasaheb
ACS College, Kalamboli
Tal. - Panvel, Dist. - F.


Mrs. Varsha S. Bhagat
(Subject Teacher)



SYLLABUS COMPLETION REPORT

Academic Year : 2020-2021

Name of the Teacher : Bhagat Varsha.S.

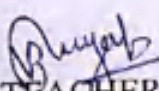
Department : Chemistry

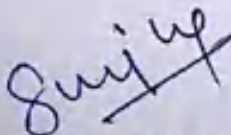
Program : B.Sc. (Science)

Course : Chemistry

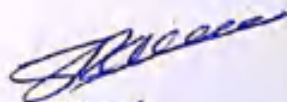
Sr. No.	Class	Subject	Unit No.	Semester	Syllabus Completed	Remark
1	F.Y.B.Sc.	Inorganic Chemistry	II (Paper I & II)	II	Yes	
2	S. Y. B.Sc.	Inorganic Chemistry	II (Paper I & II)	IV	Yes	
3	T. Y. B.Sc	Inorganic Chemistry	I to IV	VI	Yes	

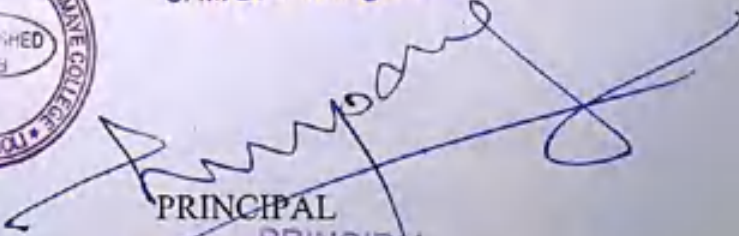
DATE : 20/03/2021


SUBJECT TEACHER


IQAC CO-ORDINATOR
Co - ordinator
Internal Quality Assurance Cell
S. M. D. L. College, Kalamboli,




Head
Department of Chemistry
S. M. D. L. College, Kalamboli.


PRINCIPAL
PRINCIPAL
S. M. D. L. College, Kalamboli,
Tal. - Panvel, Dist. - Raigad.

S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date: 20/3/2021

To,

The Principal.
S. M. D. L. College.

**Subject : Regarding The completion of teaching the syllabus of F.Y.B.Sc.
Semester - II**

Respected Sir,


Through this declaration letter, I would like to say that, I have been completed my **F.Y.B.Sc. Semester-II** syllabus by teaching in stipulated time.

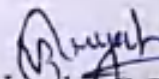
Class : F.Y.B.Sc

Semester : Semester-II

Subject Name : Inorganic Chemistry [Paper I & II (Unit II)]

Academic Year : 2020-2021


Anub Limaye
Kalamboli,
M.S. Gad.


Mrs. Varsha S. Bhagat
(Subject Teacher)



S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date: 20/3/2021

To,

The Principal.

S. M. D. L. College.

**Subject : Regarding The completion of teaching the syllabus of S.Y.B.Sc.
Semester - IV**

Respected Sir,

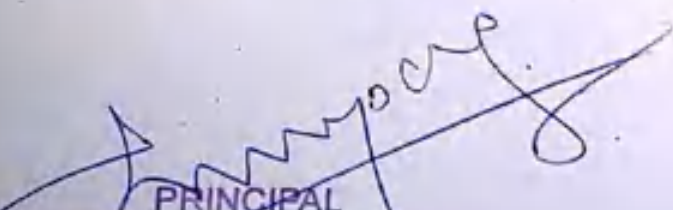
Through this declaration letter, I would like to say that, I have been completed my S.Y.B.Sc. Semester-IV syllabus by teaching in stipulated time.

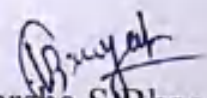
Class : S.Y.B.Sc

Semester : Semester-IV

Subject Name : Inorganic Chemistry [Paper I & II (Unit II)]

Academic Year : 2020-2021


PRINCIPAL
SES'S S. M. Dadasaheb L. Wase
ACS College, Kalamboli
Tal.- Panvel, Dist. - Raigad.


Mrs. Varsha S. Bhagat
(Subject Teacher)



S.M.D.L. ART'S, SCIENCE & COMMERCE COLLEGE, KALAMBOLI

Date: 20/03/2021

To,

The Principal.
S. M. D. L. College.

**Subject : Regarding The completion of teaching the syllabus of T.Y.B.Sc.
Semester - VI**

Respected Sir,

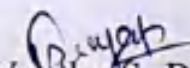
Through this declaration letter, I would like to say that, I have been completed my **T.Y.B.Sc. Semester-VI** Syllabus by teaching in stipulated time.

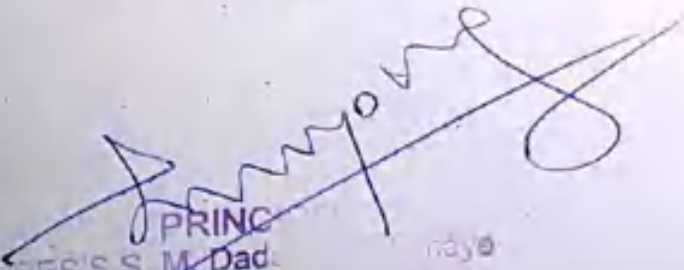
Class : T.Y.B.Sc

Semester : Semester-VI

Subject Name : Inorganic Chemistry (Unit I to IV)

Academic Year : 2020-2021


Mrs. Varsha S. Bhagat
(Subject Teacher)


PRINC
S. M. D. L. College,
Tal.- Panvel, Dist.

