



JNAN VIKAS MANDAL'S
Amriatlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli Navi Mumbai

Date :- 13/06/2023

Minutes of the Meeting

A meeting of staff members of Department of Chemistry with Principal was held in Chemistry Department staffroom on 13th June 2023 at 1.00 p.m. The meeting was presided over by the Principal Dr. Leena Sarkar. Following members were present in the meeting.

Signature

1. Dr. Leena Sarkar [Principal]
2. Asst. Prof. Sandhya Patil
3. Asst. Prof. Harshada Niju
4. Asst. Prof. Savita Kumari
5. Dr. Shweta Rathore

Leena
Sandhya
Harshada
Savita
Shweta

8

Following points were discussed in the meeting:-

- 1] Principal Dr. Leena Sarkar told that as per academic calendar the Certificate course has to be started after completion of Bridge Course. The dates decided for Certificate course of T.Y.B.Sc (Chemistry) were from 20th June to 26th June 2023.
- 2] Principal Dr. Leena Sarkar madam asked to decide the theme of the Course. After discussion the theme "Advances in Chemistry" was finalized.
- 3] The time table and syllabus for Certificate Course was finalized in the meeting.
- 4] Meeting was end with vote of thanks.

Sandhya Patil
Asst. Prof. Sandhya Patil
(Convener)

Leena
Dr. Leena Sarkar
H.O.D (Dept. of Science) & Principal

PRINCIPAL
JNAN VIKAS MANDAL'S
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE
Plot No.9, SEC.- 19, AIROLI,
NAVI MUMBAI-400 708





JNAN VIKAS MANDAL'S
Amriatlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmashree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli Navi Mumbai

Date: 12/06/2023

NOTICE

All faculties of the Chemistry Department are hereby informed that tomorrow on 13th June 2023 there will be meeting at 1.00 pm in Chemistry staff room.

All the members are requested to be present for the same.

AGENDA

- 1] To discuss about conducting "Certificate Course" for T.Y.B.Sc. Class.
- 2] Any other matter with the permission of Chairperson.

Leena

Dr. Leena Sarkar

H.O.D (Dept. of Science) & Principal

PRINCIPAL

JNAN VIKAS MANDAL'S
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE
Plot No.9, SEC.- 19, AIROLI,
NAVI MUMBAI-400 700





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
Diwali Maa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli, Navi Mumbai

Certificate Course in

"ADVANCES IN CHEMISTRY" T.Y.B.Sc. Chemistry Sem V 2022-23

Duration-30 Hrs

OBJECTIVES: -

- Learners will gain knowledge about Hydrogels and their applications.
- Learner will study the supramolecules.
- Learner will gain information about petroleum products and their methods of Analysis.
- Learner will study Biosensors .

OUTCOME: -

- Learner is knowledge of advantages, limitations and applications of Hydrogels..
- Develop an understanding of supramolecules.
- Learner has knowledge about petroleum products and is able to do analysis of oils.
- Learners got knowledge about biosensors and its applications.





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

COURSE SYLLABUS

CERTIFICATE COURSE " ADVANCES IN CHEMISTRY" CONTENT- 2023-24

(For T.Y.B.Sc. Chemistry) 20th-25th June 2022

Asst. Prof. Harshada Niju - 8 L

	MODULE-1
1.1.	Hydrogels: Introduction (1L)
1.2.	Preparation and its classification (2L)
1.3	Advantages and disadvantages (2L)
1.4	Applications (2L)
1.5	Assignment (1L)
Asst. Prof. Shweta Rathore - 7 L	
	MODULE-2
2.1	Biosensors (1L)
2.2	Principle(1L)
2.3	Types of biosensors(1L)





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

2.4	Application of Biosensors(1L)
2.5	Examples of Biosensors(1L)
2.6	Devices used in Biosensors(1L)
2.7	Assignment -(1L)
Asst. Prof. Savita Kumari - 7 L	
	MODULE-3
3.1.	Chemistry of Supramolecules 1 (1L)
3.2.	Chemistry of Supramolecules 2 (1L)
3.3	Chemistry of Supramolecules 3 (1L)
3.4	Chemistry of Supramolecules 4 (1L)
3.5	Chemistry of Supramolecules 5 (1L)
3.6	Chemistry of Supramolecules 6 (1L)
3.7	Assignment (1L)





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

Asst. Prof. Sandhya Patil 8 L	
	MODULE-4
4.1	Branches of Chemistry (1L)
4.2	Petroleum Products (1L)
4.3	Use of Petroleum products(1L)
4.4	Separation methods of Petroleum Products (1L)
4.5	Analysis of Oils (1L)
4.6	Analysis of Petroleum products (1L)
4.7	Assignment (2 L)





JNAN VIKAS MANDAL
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai


Certificate Course “ ADVANCES IN CHEMISTRY”
Timetable
20th -26th June 2023

Class-T.Y.B.Sc.

Academic year: 2023-24

Time	Day					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.40 to 9.40 am	(S.R.)	(S.P)	(S.P.)	(S.K)	(H.N.)	(S.P.)
9.40 to 10.40 am	(S.K)	(S.P)	(S.R.)	(S.P.)	(H.N.)	(H.N.)
11.00 to 12.00	(S.P.)	(S.K)	(H.N.)	(H.N.)	(S.K)	(S.R.)
12.00 to 1.00 pm	(H.N.)	(S.R.)	(S.K)	(S.R.)	(S.R.)	(S.K.)
1.00 to 2.00 p.m.	Assignment (S.P)	Assignment (S.P)	Assignment (S.R)	Assignment (S.K)	Assignment (H.N)	Assignment (H.N)

H.N – Dr. Harshada Niju S.P – Mrs. Sandhya Patil S.K – Miss Savita Kumari S.R – Dr. Shweta Rathore


Mrs. Sandhya Patil

(In charge for Certificate Course)


Dr. Leena Sarkar

H.O.D, Dept. of Science & Principal



PRINCIPAL
JNAN VIKAS MANDAL'S
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENC
Plot No.9, SEC.- 19, AIROLI,
NAVI MUMBAI-400 798



JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R. T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

Participant list T.Y.B.Sc Certificate Course 2023-24 "Advances in Chemistry"

Sr. No.	Name of Student
1	Sanika Govind Pote
2	Madhavi Sanjay Kanase
3	Avaneesh Umashankar Yadav
4	Jaywant Bajirao Lotale
5	Ritika Giri
6	Riya Subhash Vishwakarma
7	Pratiksha Shravan Borde
8	PoojaUmesh Shah
9	Omkar Sanjay Nanavare
10	Parul Pawankumar Singh
11	Nikita Nagnath Lagade





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

T.Y.B.Sc 2023-24 Certificate Course "Advancesin Chemistry"

Attendance

Date - 20/06/23

Sr. No	Time	Lec. 1	Lec 2	Lec 3	Lec 4	Lec 5
	Name of Student	Sign	Sign	Sign	Sign	Sign
1	Avaneesh Yadav					
2	Pooja Shah					
3	Pratiksha Borde					
4	Madavi Kanase					
5	Nikita Lagade					
6	Riya vishwakarma					
7	Omkar Nanavare					
8						
9						
10						
11						
12						
13						
14						
15						
	Name of Teacher		S.R	S.R	S.R	S.R
	Sign of Teacher					

Harshada
Harshada
Shivk
Shivk
Shivk





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
Diwali Maa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli, Navi Mumbai

T.Y.B.Sc 2023-24 Certificate Course "Advancesin Chemistry"

Attendance

Date - 21/06/23

Sr. No	Time	Lec. 1	Lec 2	Lec 3	Lec 4	Lec 5
Name of Student	Sign	Sign	Sign	Sign	Sign	Sign
1	Riya vishwakarma	Riyav	Riyav	Riyav	Riyav	Riyav
2	Madani Kanase	Madani	Madani	Madani	Madani	Madani
3	Avaneesh yadav	Av	Av	Av	Av	Av
4	Lotale Jayavant	Jlote	Jlote			
5	Pratiksha Borde	Borde	Borde	Borde	Borde	Borde
6	Sanika Pote	Sanika	Sanika	Sanika	Sanika	Sanika
7	omkar Nanavare	Omkar	Omkar	Omkar	Omkar	Omkar
8	Ritika Gusi	Ritika	Ritika	Ritika	Ritika	Ritika
9	Pooja Shah		Shah	Shah		Shah
10	Jayavant Lotale		Jlote			
11						
12						
13						
14						
15						
Name of Teacher	Sandhya Pahl	Savita	Haresh	Savita	Savita	Savita
Sign of Teacher	Sandhya	Savita	Haresh	Savita	Savita	Savita





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanalal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

T.Y.B.Sc 2023-24 Certificate Course " Advancesin Chemistry"

Attendance

Date - 22/06/23

Sr. No	Time	Lec. 1	Lec 2	Lec 3	Lec 4	Lec 5
Name of Student	Sign	Sign	Sign	Sign	Sign	Sign
1	Riya vishwakarma	Riyen	Riyen	Riyen	Riyen	Riyen
2	Jayavant Lotele	Jalotele	Jalotele			
3	Avaneesh Yadav	A	A	A	A	A
4	Madavi Kanase	Madavi	Madavi	Madavi	Madavi	Madavi
5	omkar Namavare	omkar	omkar	omkar	omkar	omkar
6	Parul Singh		Parul	Parul		
7	Pooja Bhan		Bhan	Bhan	Bhan	Bhan
8						
9						
10						
11						
12						
13						
14						
15						
Name of Teacher	Savita	Savita	Harsada	Harsada	Savita	
Sign of Teacher	Savita	Savita	Harsada	Harsada	Savita	





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
Diwali Maa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli, Navi Mumbai

T.Y.B.Sc 2023-24 Certificate Course "Advancesin Chemistry"

Attendance

Date - 23-06-2023

Sr. No	Time	Lec. 1	Lec 2	Lec 3	Lec 4	Lec 5
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	Name of Teacher	Harshada	Harshada	Sanika	Sanika	Harshada
	Sign of Teacher	Harshada	Harshada	SB	SB	Harshada





JNAN VIKAS MANDAL'S
 Amritlal Raichand Mehta Degree College of Arts
 Diwali Maa Degree College of Science
 Mohanlal Raichand Mehta College of Commerce
 Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
 Plot no.9, Sector -19, Airoli, Navi Mumbai

T.Y.B.Sc 2023-24 Certificate Course "Advances in Chemistry"

Attendance

Date - 24-06-2023

Sr. No	Time	Lec. 1	Lec 2	Lec 3	Lec 4	Lec 5
Name of Student	Sign	Sign	Sign	Sign	Sign	Sign
1	Riya vishwakarma	Riya	Riya	Riya	Riya	Riya
2	Omka Sonjay Mamavare	Omka	Omka	Omka	Omka	Omka
3	Jayavant Lotale	Jay	Jay	Jay	Jay	Jay
4	Avaneesh Vardav	Av	Av	Av	Av	Av
5	Madavi Kanase	Madavi	Madavi	Madavi	Madavi	Madavi
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	Name of Teacher	S.P.	S.P.	HN	HN	HN
	Sign of Teacher			HN	HN	HN





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

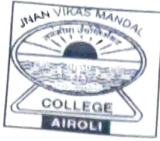
T.Y.B.Sc 2023-24 Certificate Course "Advancesin Chemistry"

Attendance

Date - 25-06-2023

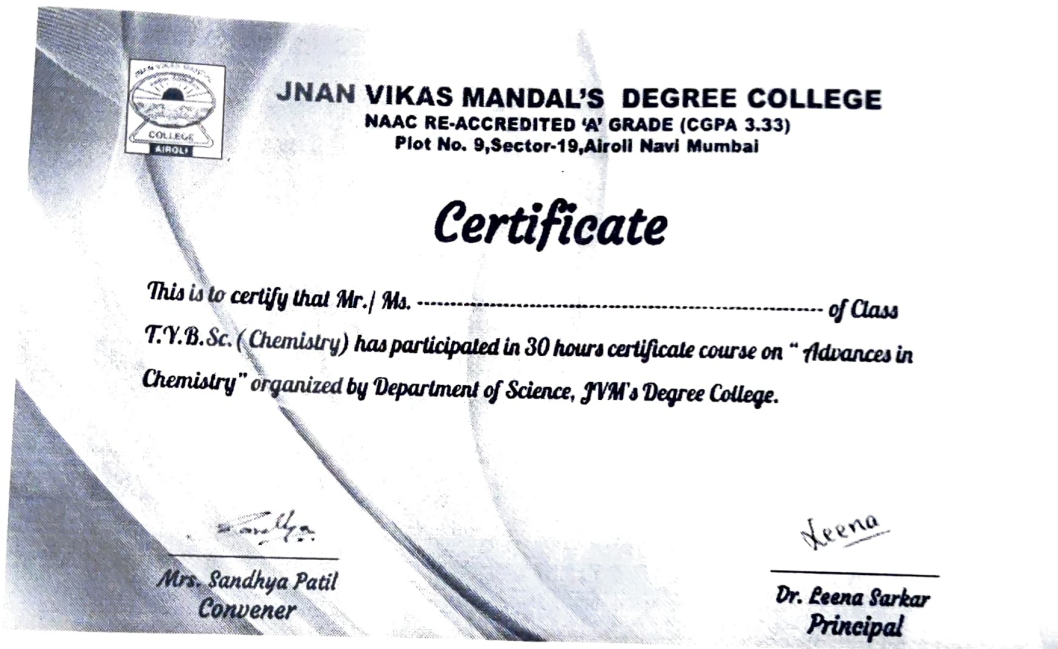
Sr. No	Time	Lec. 1	Lec 2	Lec 3	Lec 4	Lec 5
Name of Student	Sign	Sign	Sign	Sign	Sign	Sign
1	Pratiksha Borde	<u>Borde</u>	<u>Borde</u>	<u>Borde</u>	<u>Borde</u>	<u>Borde</u>
2	Riya vishwakarma	<u>Riyaw</u>	<u>Riyaw</u>	<u>Riyaw</u>	<u>Riyaw</u>	<u>Riyaw</u>
3	Ritika Guri	<u>Ritika</u>	<u>Ritika</u>	<u>Ritika</u>	<u>Ritika</u>	<u>Ritika</u>
4	Sanika Pate	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>
5	Madavi kande	<u>Madavi</u>	<u>Madavi</u>	<u>Madavi</u>	<u>Madavi</u>	<u>Madavi</u>
6	Anesh yadav	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>
7						
8						
9						
10						
11						
12						
13						
14						
15						
	Name of Teacher	<u>Savitry</u>	<u>Savitry</u>	<u>Savitry</u>	<u>Harshada</u>	<u>Savitry</u>
	Sign of Teacher	<u>S</u>	<u>S</u>	<u>S</u>	<u>H</u>	<u>S</u>





JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

Model Certificate



Sandhya
Mrs. Sandhya Patil
Convener

Leena
Dr. Leena Sarkar
HOD(Dept. of Chemistry) & Principal



PRINCIPAL
JNAN VIKAS MANDAL'S
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE
Plot No.9, SEC.- 19, AIROLI,
NAVI MUMBAI-400 708



JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

Certificate Course in
“ADVANCES IN CHEMISTRY”
T.Y.B.Sc. Chemistry 2023-24
Summary Report

Duration-30 Hrs

**Certificate Course was conducted for T.Y.B.Sc (Chemistry)
students from 20th June 2021 to 26rd June 2021 on the Topic
“ADVANCES IN CHEMISTRY”**

The topics covered were as follows

Faculty Name	Topic
Asst. Prof. Harshada Niju	Hydrogels
Asst. Prof. Sandhya Patil	Petroleum products
Asst. Prof. Savita Kumari	Supramolecules
Dr. Shweta Rathore	Biosensors

Outcomes achieved-

- Learner got knowledge of Hydrogels, its advantages, limitations and applications of Hydrogels.
- Learners developed an understanding of supramolecules.
- Learner got information about petroleum products and they are able to do analysis of oils.
- Learners got knowledge about biosensors and its applications.



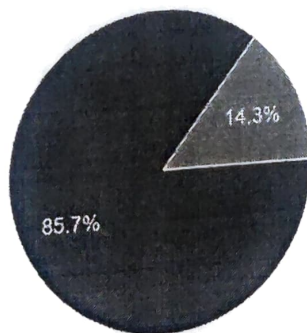


JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

Feedback Analysis

1. What did you gain from the sessions?

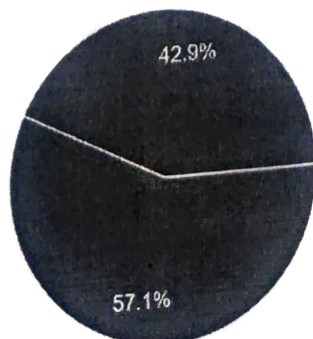
7 responses



- New information
- Answers to my question
- Resource Material
- Ideas I can try immediately

2. What benefits have you obtained from sessions?

7 responses



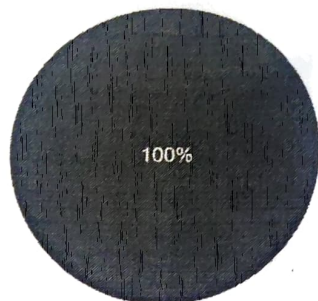
- Motivated to think differently
- Clarified things that had been learned
- Stimulated interest to learn more
- Nothing in particular





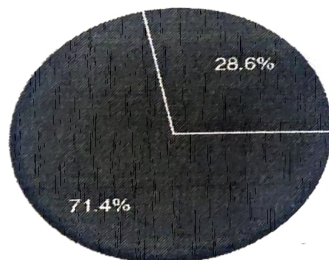
JNAN VIKAS MANDAL'S
Amritlal Raichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmasree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli , Navi Mumbai

4. The lecture sequence was well planned
7 responses



- Agree
- Neutral
- Disagree

5. Please give overall rating of the course
7 responses



- Excellent
- Very good
- Good
- Fair
- Poor

Feed back was collected through G form

(https://docs.google.com/forms/d/e/1FAIpQLSeNCqZxgn4VIAKplOwn-9aOdWPq3FRuFHgP4f842vGgYwZaQ/viewform?usp=sf_link) in which all students were satisfied with the course .

Mrs. Sandhya Patil

Convener

Dr. Leena Sarkar

HOD(Dept. of Chemistry) & Principal

PRINCIPAL
JNAN VIKAS MANDAL'S
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE
Plot No.9, SEC.- 19, AIROLI,
NAVI MUMBAI-400 705

