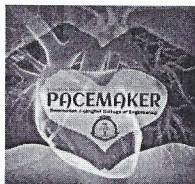




Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
Vile Parle (W) Mumbai - 400 056.



PACEMAKER 20156

REPORT

30th January 2016

PROTEUS WORKSHOP PART-1

A very informative session was conducted on 30th January 2016 from 1:45 p.m. to 3:00 p.m. in the premises of Dwarkadas J. Sanghvi College of Engineering in Lecture Room – 1 of the Biomedical Department (4th floor) for the students pursuing Biomedical Engineering by Mr. Parth Bhatt (T.E Student, Biomedical Engineering DJSCE).

Parts covered in the first phase of the workshop:

- 1.) Installation of Proteus 8.1 simulation software on laptops.
- 2.) Introduction to Proteus software and why it is used.
- 3.) Practical use of Proteus 8.1 for making and simulating basic circuits like electrical equivalent model of first order system and the working of OPAMPS and its application. The use of oscilloscopes and reading probes was also explained during the workshop.
- 4.) Debugging tactics were also taught to the students.

21 students of T.E. Biomedical Engineering attended the workshop. It was a free workshop.

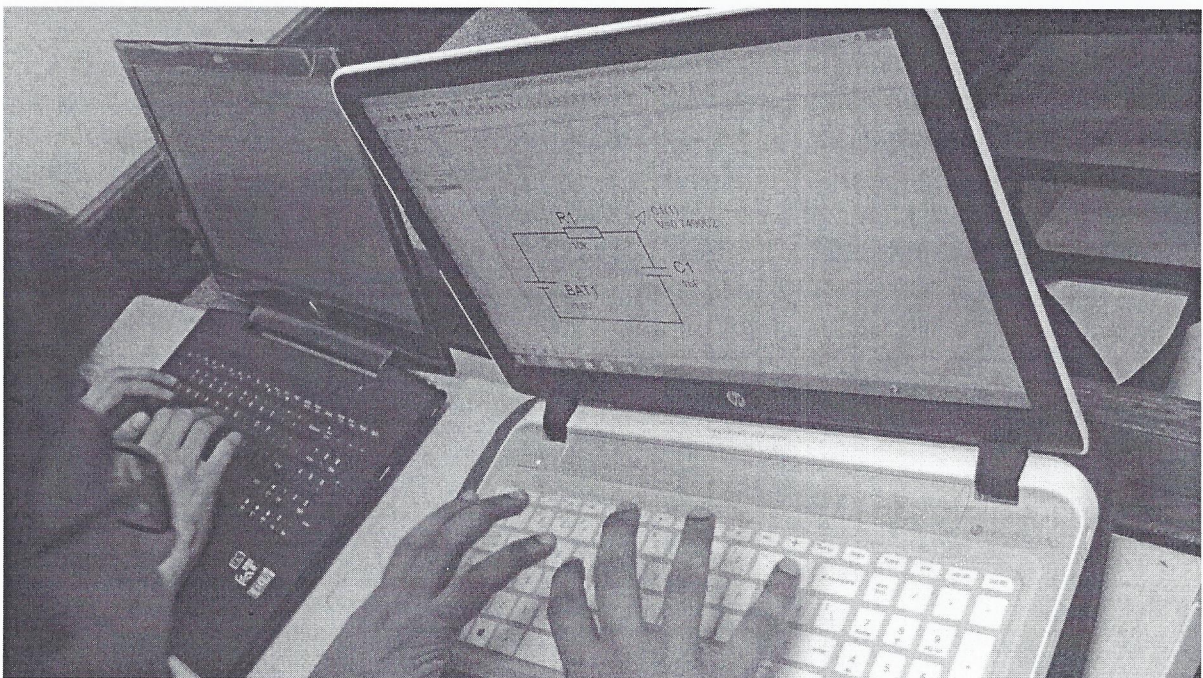
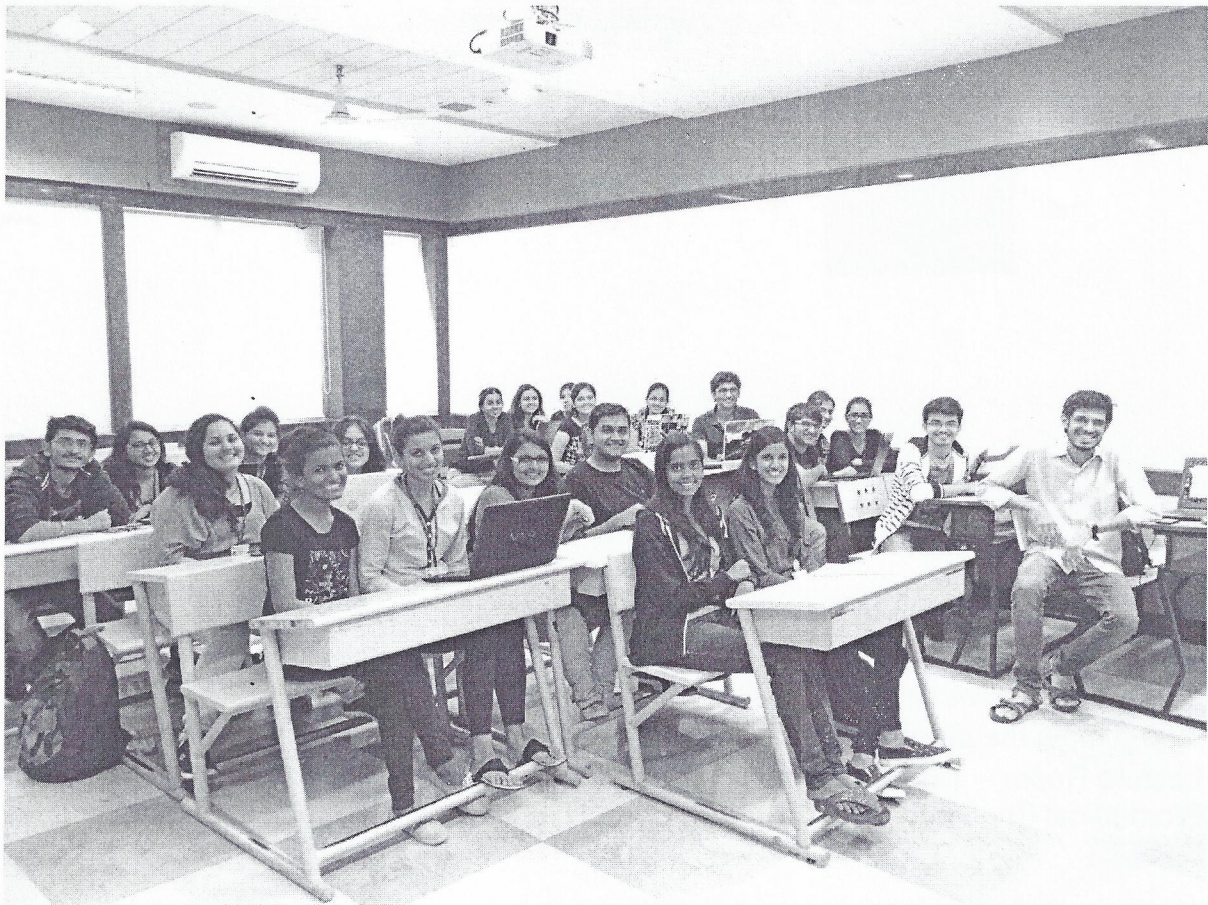
It was a very good learning experience for the students and they enjoyed it.

Smeet Doshi
SECRETARY
Pacemaker 2015-16

Bhavya Mehta
TREASURER
Pacemaker 2015-16

Geetika Singh
EVENTS HEAD
Pacemaker 2015-16

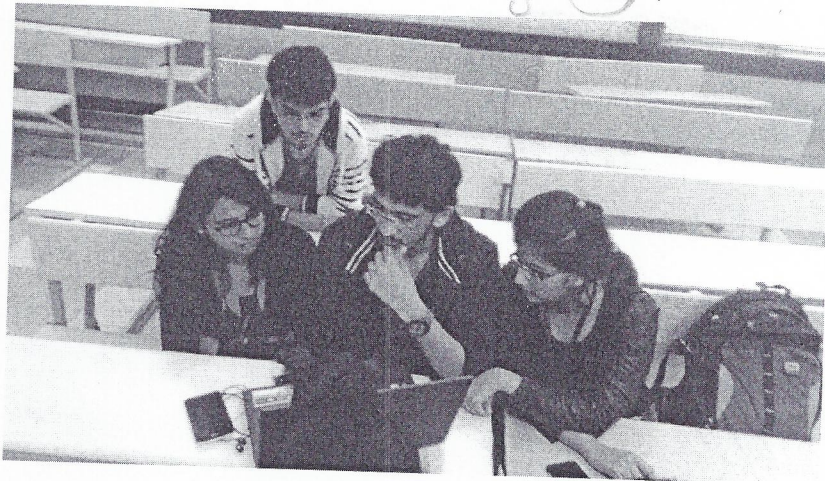
PHOTOGRAPHS OF THE EVENT:



Smeet Doshi
SECRETARY
Pacemaker 2015-16

Bhavya Mehta
TREASURER
Pacemaker 2015-16

Geetika Singh
EVENTS HEAD
Pacemaker 2015-16



HEAD
DEPT. OF BIOMEDICAL ENGG.
DWARKADAS J. SANGHVI
COLLEGE OF ENGINEERING
Vile Parle (W), Mumbai - 400 056.

Smeet Doshi
SECRETARY
Pacemaker 2015-16

Bhavya Mehta
TREASURER
Pacemaker 2015-16

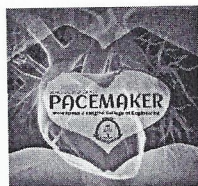
Geetika Singh
EVENTS HEAD
Pacemaker 2015-16



Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
Vile Parle (W) Mumbai - 400 056.



Proteus Workshop
Part-II Pg ①
03/2/16



PACEMAKER 2015-16

REPORT

3rd February 2016

PROTEUS WORKSHOP PART-2

A session on 'Basics of Proteus' was conducted on 3rd February 2016 from 2:15 p.m. to 3:30 p.m. in the premises of Dwarkadas J. Sanghvi College of Engineering in Lecture Room – 2 of the Biomedical Department (4th floor) for the students pursuing Biomedical Engineering. The workshop was organized by Pacemaker unit and was conducted by Mr. Parth Bhatt (T.E Student, Biomedical Engineering DJSCE) and Mr. Omkar Desai (T.E Student, Biomedical Engineering DJSCE).

Parts covered in the first phase of the workshop:

- 1.) Revision of the Basics of Proteus.
- 2.) Introduction to KEIL software.
- 3.) Practically implemented sample codes using 8051 microprocessor.
- 4.) Debugging tactics were explained to the students.
- 5.) Applications of Proteus in course projects was discussed.

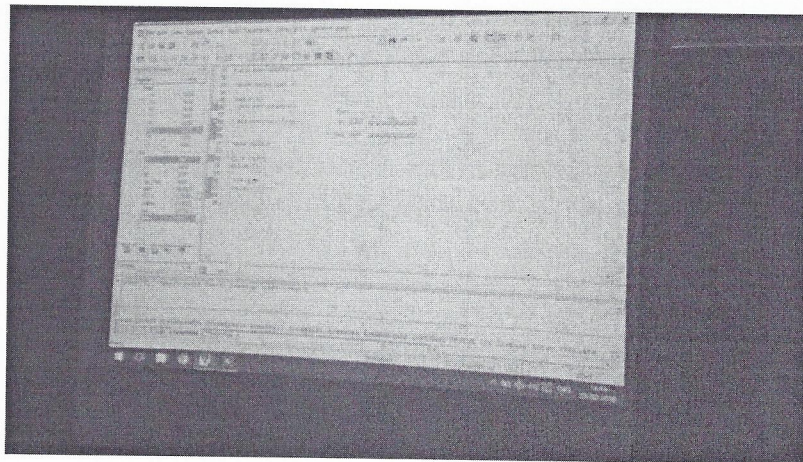
16 students of T.E. Biomedical Engineering attended the workshop. The workshop was free of cost and the students had a very good learning experience.

Smeet Doshi
SECRETARY
Pacemaker 2015-16

Bhavya Mehta
TREASURER
Pacemaker 2015-16

Geetika Singh
EVENTS HEAD
Pacemaker 2015-16

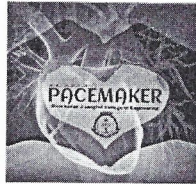
PHOTOGRAPHS OF THE EVENT:



Smeet Doshi
SECRETARY
Pacemaker 2015-16

Bhavya Mehta
TREASURER
Pacemaker 2015-16

MW
HEAD
DEPT. OF BIOMEDICAL ENGG.
DWARKADAS J. SANGHVI
INSTITUTE OF ENGINEERING
EVENTS HEAD
Mumbai - 400 056.
Pacemaker 2015-16



PACEMAKER 2015-16

REPORT

23rd March 2016

INDUSTRIAL VISIT- IMAGINARIUM INDIA PVT. LTD.

An industrial visit was organised on 23rd March 2016 from 3:00 p.m. to 4:30 p.m. at Imaginarium India pvt. ltd. India's largest 3-D printing firm for the students of Biomedical Engineering Department. The workshop was organized by Pacemaker 2016 committee with the help of Dr. Manali Godse (HOD Biomedical Department, DJSCE). The students were accompanied by Mr. Vivek Deodeshmukh (Faculty at Biomedical Department, DJSCE).

Our student got to learn various different techniques of 3-D printing from the highly skilled medical team of Imaginarium India lead by Mr. Guruprasad Rao.

The flow of the visit was as follows:

- 1.) The visit commenced with a round of introductions of the team members and the students.
- 2.) We were then showed a video about the company itself and a basic introduction to the technology of 3-D printing and its history.
- 3.) We were then, in a group of two, taken to their manufacturing site and showed their entire manufacturing process with an imaginarium team member with us explaining every single process in detail while visually showing it to us.
- 4.) After the manufacturing unit visit, we had a Q&A session where various doubts of our students were very nicely answered by the team members at Imaginarium team.

- 5.) We were then shown some marvellous products made by them using 3-D printing technology including the "Filmfare Awards trophy."
- 6.) The visit ended with a group photo.

The topics that were covered in this visit are:

a.) Manufacturing techniques:

- Additive
- Subtractive
- Extrusion/Rolling

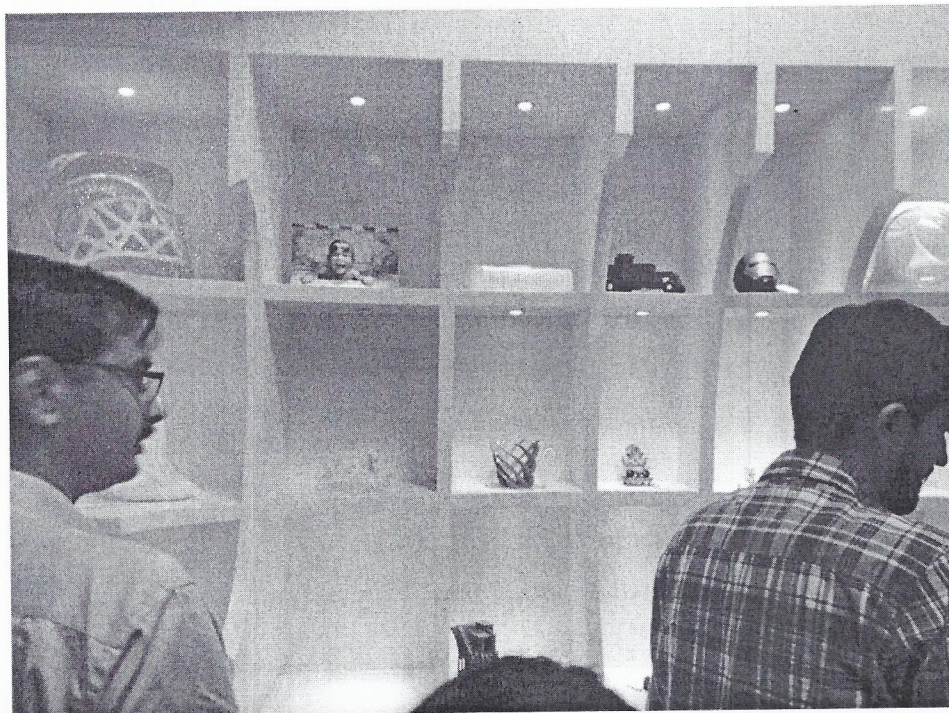
b.) Techniques used for different applications:

- Vat photo polymerisation/ Stereo Lithography Apparatus (SLA)
- Powdered bed Fusion/ Selective Laser Sintering (SLS)
- Material Extrusion/ Fused Deposition Modelling (FDM)
- Laminated Object Manufacturing (LOM)
- Binder Jetting
- Material Jetting/ polyjet and multijet printing
- Directed Energy Deposition/Electron Beam Melting
- Digital Light Processing (DLP)
- 3-D Scanning

c.) Various Departments involved:

- Finishing/ Post-Processing
- PPC Department
- Jewellery finishing Department
- CAM Department
- Packaging Department
- Delivery and Dispatch Department

PHOTOGRAPHS OF THE EVENT:

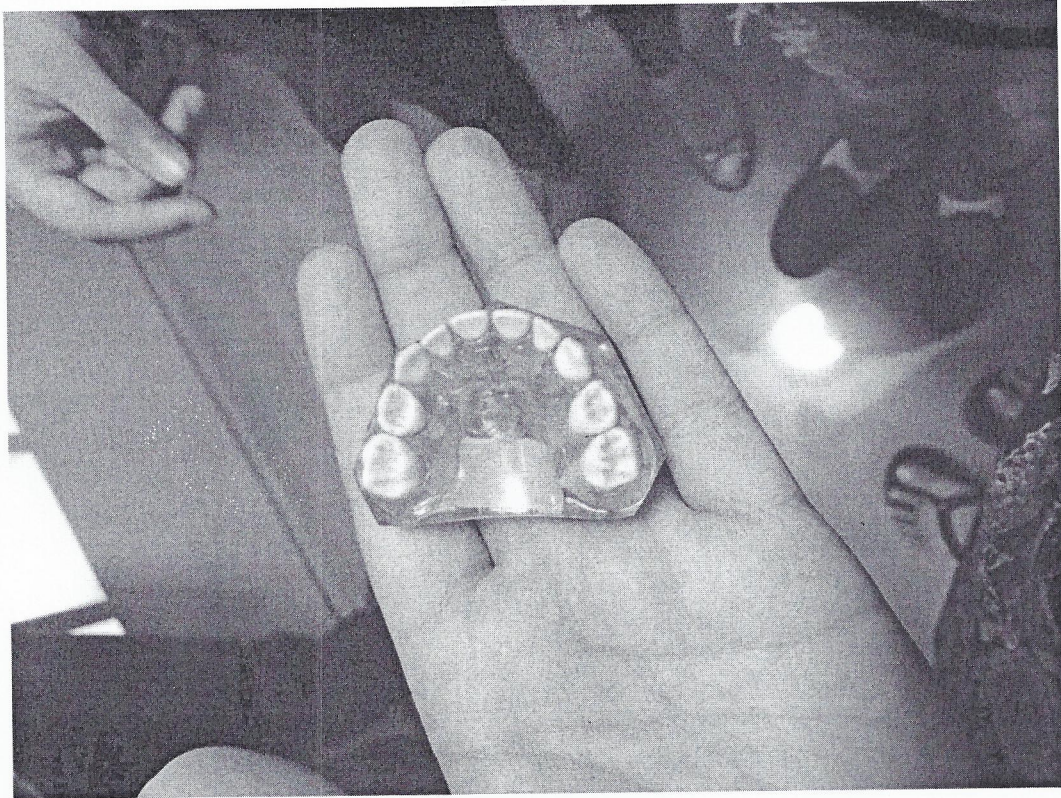


Smeet Doshi
SECRETARY
Pacemaker 2015-16

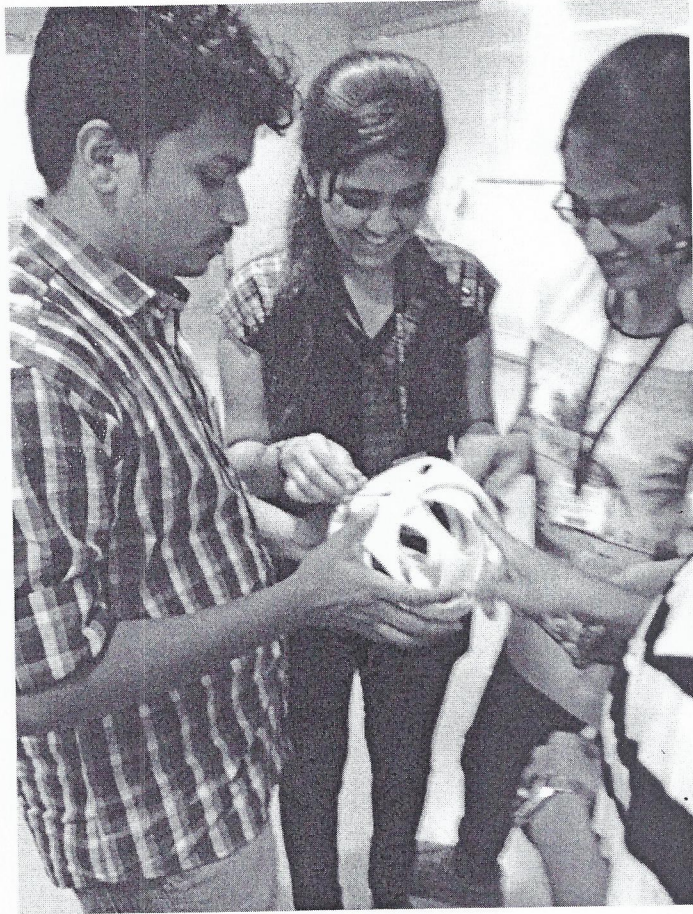
Bhavya Mehta
TREASURER
Pacemaker 2015-16

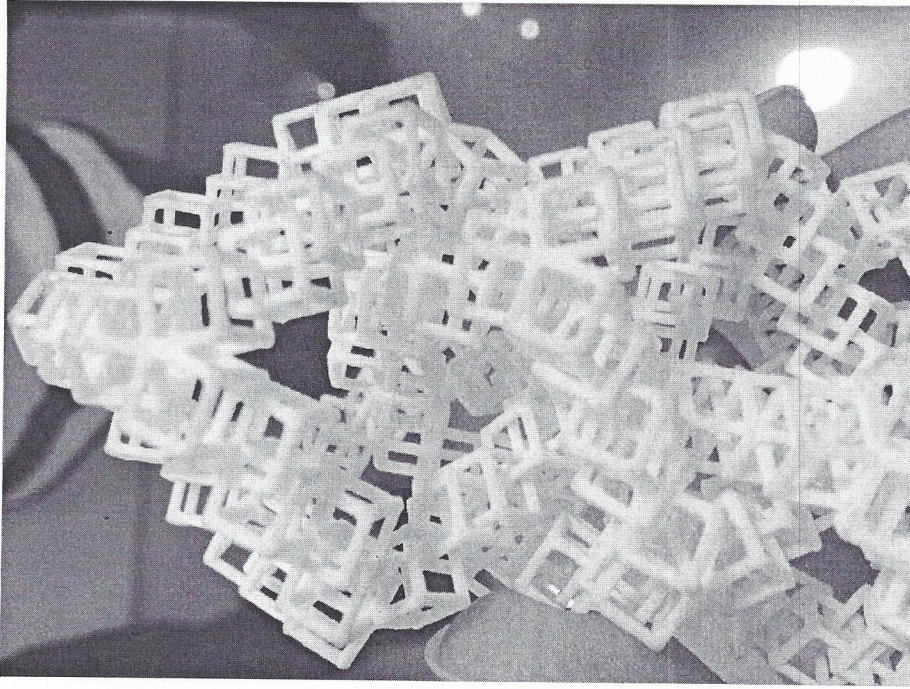
Geetika Singh
EVENTS HEAD
Pacemaker 2015-16

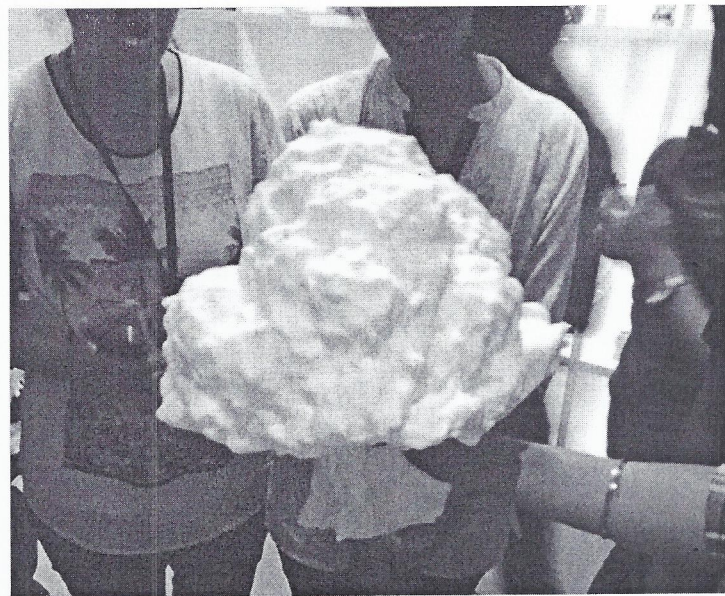












Smeet Doshi
SECRETARY
Pacemaker 2015-16

Bhavya Mehta
TREASURER
Pacemaker 2015-16

Geetika Singh
EVENTS HEAD
Pacemaker 2015-16

Imaginalium Visit 23/3/16

PACEMAKER 2015-16

Page 10



MJ
HEAD
DEPT. OF BIOMEDICAL ENGG.
DWARKADAS J. SANGHVI
COLLEGE OF ENGINEERING
Vile Parle (W), Mumbai - 400 056.

Smeet Doshi
SECRETARY
Pacemaker 2015-16

Bhavya Mehta
TREASURER
Pacemaker 2015-16

Geetika Singh
EVENTS HEAD
Pacemaker 2015-16