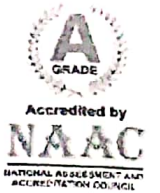




# Bharath

## INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)  
(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4<sup>th</sup> July 2002)



Phone : 044-22290742 / 22290125 . Telefax : 044-22293886  
Website : www.bharathuniv.ac.in

173, Agaram Road, Selaiyur, Tambaram,  
Chennai - 600 073. Tamil Nadu.

29.01.2020

From

The Head of the Department

Department of Biomedical Engineering

Bharath Institute of Higher Education and Research

Chennai.

To

The Dean Engineering

Bharath Institute of Higher Education and Research

Chennai.

Respected Sir,

Sub: Requesting for Industrial Visit-Reg

I would like to request to permit our students of I Year B.Tech –Biomedical Engineering ,M.Tech-Biomedical Engineering &M.Tech-Industrial Biotechnology ((Total 74 Students) and two faculty members for Industrial Visit at Radikal Medequip Systems, Chennai on 26.02.2020. Hereby I have enclosed students name list. We request you to approve the Industrial Visit in the Radikal Medequip Systems, Chennai and do the necessary transportation facility for the benefit of students and staffs.

Thanking You

Yours Sincerely

(Dr.R.Vasuki)

*[Handwritten signature]*  
29/1/20

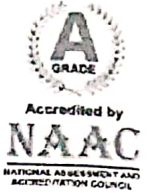




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Website : www.bharathuniv.ac.in

173, Agaram Road, Selaiyur, Tambaram,  
Chennai - 600 073. Tamil Nadu.

Chennai

05.02.2020

From  
Dr.R.Vasuki  
Professor & Head,  
Dept. of Biomedical Engineering,  
BIHER-BIST.

To  
Mr.Gaddy Silva  
Director and Senior Biomedical Engineer  
Radikal Medequip Systems  
Pallikaranai,  
Chennai.

Respected Sir

Sub: Requisition for Industrial visit - Reg

Greeting from BIHER, We wish to undertake an industrial visit at your company on 26.02.2020 to acquire practical knowledge in Medical Equipments. Our academic curriculum focuses on engaging students in practical experiences to observe the implementation of what they are taught in Institute. We believe that your company will give our students relevant knowledge during this visit. The students of I Year B.Tech -Biomedical Engineering, M.Tech-Biomedical Engineering & M.Tech-Industrial Biotechnology (Total 74 Students) and two faculty members intend to participate in this industrial visit. I request you to kindly acknowledge this official communication at the earliest. Please allow us to conduct an industrial visit to your company and meet your skilled employee.

Thanking you

Email: hod.bme@bharathnuniv.ac.in

Phone:9884943139

Yours sincerely

Dr. Vasuki R.





Chennai

7.02.2020

To

Dr.R.Vasuki

Professor & Head

Dept. of Biomedical Engineering

BIHER-BIST.

Dear Madam,

This is with reference to your request letter dated on 5.02.2020 regarding Industrial Visit to our company Radikal Medequip Systems. We will be pleased to accept your proposal and invite your students and faculty for one day visit in our company on 26.02.2020 to know about the operation of various biomedical equipments and their servicing.

Best Regards

---

No54,Opp.Heritage Fresh,Velachery Main Road Balaiah Garden, Madipakkam  
Chennai, 600091, Tamil Nadu

## Students Industrial Visit Report

The B.Tech I Year students of Biomedical Engineering had visited the Radikal equipments company and known about the following equipments working principle.

### Multimeter

A multimeter is a device that can measure a variety of electrical properties. A conventional multimeter may measure voltage, resistance, and current, and is referred to as a volt-ohm-milliammeter (VOM) since it has voltmeter, ammeter, and ohmmeter functions.

- Power cables
- Fuse
- Nasal cannula
- Drivers
- Capacitors
- Carbon brush

### Oxygen concentrator

An oxygen concentrator is a device that selectively removes nitrogen from a gas supply (usually ambient air) to produce an oxygen-enriched product gas stream. They're used in industry and as oxygen therapy equipment in hospitals.

Pressure swing adsorption and membrane gas separation are two commonly used approaches. Multiple molecular sieves made of zeolite minerals are used in pressure swing adsorption (PSA) concentrators to adsorb pressured nitrogen in quick cycles.

### Phlegm suction machine

A suction machine, also known as an aspirator, is a medical equipment that is used to remove obstructions from a person's airway, such as mucus, saliva, blood, or secretions. Suction devices help people breathe by maintaining a clean airway when they are unable to discharge secretions owing to a lack of consciousness or an ongoing medical procedure.

The following are some examples of common applications:

- ✓ When the patient is unable to remove his or her own respiratory secretions,

- ✓ Assisting a patient who is vomiting and has gone into convulsions or is unconscious.
- ✓ Clearing the airway of blood
- ✓ Taking anything out of a patient's windpipe and/or lungs (pulmonary aspiration)

## Nebulizer

Provides compressed air which delivers medications in form of mist/vapor.

A nebulizer is helpful for a variety of conditions, including:

- ✓ Chronic obstructive pulmonary disease (COPD)
- ✓ Asthma
- ✓ Bronchiectasis
- ✓ Cystic fibrosis
- ✓ Pulmonary fibrosis

Nebulizers are also a helpful way to deliver medication during palliative care and to very young children.

## Pulse Oximeter

Pulse oximetry is a non-invasive test that determines the saturation of oxygen in the blood. It can detect even little changes in oxygen levels quickly. These values indicate how well blood transports oxygen to the extremities farthest from the heart. The pulse oximeter is a little device that looks like a clip. It is attached usually finger. It is used in clinical settings as well as at home.

## Sphygmomanometer

A sphygmomanometer, also known as a blood pressure monitor or blood pressure gauge, is a blood pressure measuring device that consists of an inflatable cuff that is used to collapse and then release the artery under the cuff in a controlled manner, as well as a mercury or aneroid manometer to measure the pressure.

Types:

- ✓ Manual
- ✓ Aneroid
- ✓ Digital

✓ Wrist watch type

## ECG Machine

An electrocardiogram (ECG) is one of the most basic and quick procedures for assessing the heart. Electrodes (tiny, skin-sticking plastic patches) are applied to specific areas of the chest, arms, and legs. Lead wires connect the electrodes to an ECG machine. The heart's electrical activity is then recorded, interpreted, and printed. There is no electrical current sent into the body.

## Patient Monitoring System

A patient monitoring system is a device or system that aids healthcare providers in monitoring a patient's physiological signs. It is used to monitor and measure the vital signs of critically ill patients, such as heart rate, respiration rate, temperature, blood oxygen saturation, and a variety of other data.

## VENTILATOR

A ventilator is a machine that delivers breaths to a patient who is physically unable to breathe or who is breathing insufficiently by moving breathable air into and out of the lungs. Patients can also be ventilated with a simple, hand-operated bag valve mask. Ventilators are computerised microprocessor-controlled equipment, but patients can also be vented using a simple, hand-operated bag valve mask. Intensive-care medicine, home care, emergency medicine, and anaesthesiology are the most common uses for ventilators (as a component of an anaesthesia machine).



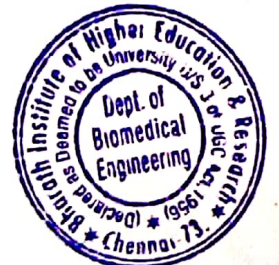


# Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
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## DEPARTMENT OF BIOMEDICAL ENGINEERING Students Name List

S.No	Reg.No	Students Name
1	U19BM001	ABDUL LATHIF S
2	U19BM002	AMARA DURGA KIRAN KUMAR
3	U19BM003	AMOSE Y
4	U19BM004	ANIP AANANDA SHAH
5	U19BM005	ANNAPOORANI V
6	U19BM006	APPAM YOGESH REDDY
7	U19BM007	BALI MONIKA
8	U19BM008	BANKURU AKHILA
9	U19BM009	BARU NAVYA SREE
10	U19BM010	BATTINI NAVYA SUNANDA
11	U19BM011	BEZAWADA ANUSHA
12	U19BM012	CHELSEA JOSELIEN N J
13	U19BM013	DHIVAHAR G
14	U19BM014	DHIVYA DHARSHINI V
15	U19BM015	DINESH R
16	U19BM016	DURGA M
17	U19BM017	GANGASANI AKHILESWARA REDDY
18	U19BM018	GANGASANI SOWJANYA
19	U19BM019	GANNAVARAPU TEJASWI
20	U19BM020	GURU CHARAN G C
21	U19BM021	JADI NAVYA
22	U19BM022	JAGADEESH KUMAR S
23	U19BM023	KALAYANAM INDUVATHI
24	U19BM024	KANDUKURI LISWEENA
25	U19BM025	KAVITI DHARANI
26	U19BM026	KIRUBHASHINI V
27	U19BM027	KOSINAPALLI GUNASOUMYA
28	U19BM028	KUBENDRARAJ B
29	U19BM029	KUNDURU AVINASH REDDY
30	U19BM030	KURUVA GEETHA SRI
31	U19BM031	MADHAN R
32	U19BM032	MALOJI GRACY
33	U19BM033	MANOJ R D
34	U19BM034	MITTA VINAY KUMAR



35	U19BM035	MOHAMED IBRAHIMSHA S
36	U19BM036	MONICKA R
37	U19BM037	MUBARAK SHARIEF A
38	U19BM038	NAMA JOHARSHITHA
39	U19BM039	NANDYALA RAVINDRA REDDY
40	U19BM040	NIMISHA JOHN
41	U19BM041	NITHEESH K
42	U19BM042	NITHISKUMAR V
43	U19BM043	PACHAVA POOJITHA
44	U19BM044	PAVITHRA A
45	U19BM045	PAVITHRA BHARATHI SS
46	U19BM046	PICCHALA PARAMESWARA REDDY
47	U19BM047	PRAKASHRAJ M
48	U19BM048	PUTTA DINAKAR REDDY
49	U19BM049	RASAMSETTY SAI PRAKASH
50	U19BM050	RIMA BHARTI SINGH
51	U19BM051	SARVESHWARAN G
52	U19BM052	SHAIK IFTHEKAR
53	U19BM053	SHAIK SADDAM HUSSAIN
54	U19BM054	SHIVAANI SHA K M
55	U19BM055	SNEHA V
56	U19BM056	SNEKHA E
57	U19BM058	SOWMIYA R
58	U19BM059	SUDHARSUN G
59	U19BM060	SUREDDY CHANDRA NIKHIL REDDY
60	U19BM061	T SYED MOHAMMED ASLAM
61	U19BM062	SYED REHAN AHMED
62	U19BM063	THATIKONDA SUSMITHA NAGA SWAROOPA
63	U19BM064	VACHEPALLI ANU
64	U19BM065	KATAM SHREYA
65	U19BM701	KONEGARI REVANTH BABU
66	P19BM001	BALAJI R
67	U19BM002	KRUPASANKARATHULASIMANI RAM
68	P19BM004	SURESH G
69	P19BM005	PRADEEP KUMAR P
70	P19BM006	MOHAMADROUMAN
71	P19BM007	ROUF AHMAD WANI
72	P19BT001	RAJIL S
73	P19BT002	VIMALANBAN S
74	P19BT003	RAMKI S

