



Bharath UNIVERSITY

BRARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH



BIHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
Established as Bharath Institute of Higher Education under Section 3 of U.C.E.C. Act 1956.
CHENNAI - 73

Ref:BIHER-BIST/MIBT/SPL/2021

Date: 22.11.2021

Permission Letter

From

Dr. V. Padmapriya,

Associate Professor,

Department of Microbiology and Biotechnology,

School of Basic Sciences,

Bharath Institute of Higher Education and Research,

Selayur, Chennai

To

The HOD,

Department of Microbiology and Biotechnology,

School of Basic Sciences,

Bharath Institute of Higher Education and Research,

Selayur, Chennai

Respected Sir,

SUB: Permission to conduct Value Added Course-Reg

I wish to inform you that, as it is decided to conduct the Value Added Course to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. The eligibility of this course is open for UG students from departments of School of Basic Sciences in association with Biozone Research Technologies Pvt Ltd., Chennai-117. So please permit us to conduct the value added course on Certificate Course on Toxicological Techniques from 20.12.2021-11.01.2022.

Co-Ordinator

Thanking you

HOD

Dr. VASUKIDEVI RAMACHANDRAN, M.Sc., Ph.D.,
Professor and Head,
Department of Microbiology and Biotechnology,
Faculty of Arts and Science,
Bharath Institute of Higher Education and Research,
Chennai - 73.



Bharath UNIVERSITY

భారత విశ్వవిద్యాలయం
BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH



BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed to be University under section 3 of U.G. Act, 1956)

CHENNAI - 73

Ref: BIHER-BIST/MIBT/SPL/2021

Date: 13.12.2021

CIRCULAR

The school of Basic Sciences is planned to conduct a Value added Course on **Certificate Course on Toxicological Techniques** for the benefit of B.Sc students. This value added course is commences from 20.12.2021 to 11.01.2022 with duration of 30 hours (two hours per day).

It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes.

Eligibility: Course is open for UG students for Department School of Basic Sciences.

Registration: The registration form which is available in the university website should be duly filled by the participants and to be submitted to the Coordinator at least 5 days before the commencement of course.

Contact:

Dr.V.Padmapriya
Associative Professor/ School of Basic Sciences
Course coordinator
Bharath Institute of Higher Education and Research
Email id: padmapriyav@gmail.com

HOD

Dr.VASUKIDEVI RAMACHANDRAN, M.Sc., Ph.D.,
Professor and Head,
Department of Microbiology and Biotechnology,
Faculty of Arts and Science,
Bharath Institute of Higher Education and Research,
Chennai - 73.



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CHENNAI – 73.

Ref:BIHER-BIST/MIBT/SPL/2021

Date: 22.11.2021

Permission Letter

From

Dr. V. Padmapriya,
Associate Professor,
Department of Microbiology and Biotechnology,
School of Basic Sciences,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai

To

The HOD,
Department of Microbiology and Biotechnology,
School of Basic Sciences,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai

Respected Sir,

SUB: Permission to conduct Value Added Course-Reg

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Thanking you

Co-Ordinator

HOD



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Contact:

Dr. V.Padmapriya
Associative Professor/ School of Basic Sciences
Course coordinator
Bharath Institute of Higher Education and Research
Email id: padmapriyav@gmail.com

HOD

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY
SCHOOL OF BASIC SCIENCES

Name List of the Students

Certificate Course on Toxicological techniques

S.NO	REG.NO	NAME OF THE CANDIDATE
1	U21BS001	ABINAYA. M
2	U21BS003	N.DHANUSH
3	U21BS004	A.DIVYA
4	U21BS005	R. ISHWARYA
5	U21BS006	JAYA REKHA
6	U21BS007	JAYA SURIYA V A
7	U21BS009	JISHNU PRADEEP
8	U21BS010	M.LOKESH
9	U21BS011	MALINI. D
10	U21BS012	M. MEGAVARSHINI
11	U21BS013	B. NISHA LAKSHMI
12	U21BS014	NITHYASREE P N
13	U21BS015	DURGA CHENNAKESAVA RAO. PAMARTHI
14	U21BS017	W.ROKHIA KATHUN
15	U21BS018	SANDHIYA.T
16	U21BS019	TAMIL SELVAN.S
17	U21BS020	B VAISHNAVI
18	U21BS021	CHANAKYA HAZARIKA
19	U21BS022	L. KALGINATHAN
20	U21BS023	PURUSOTHAMAN

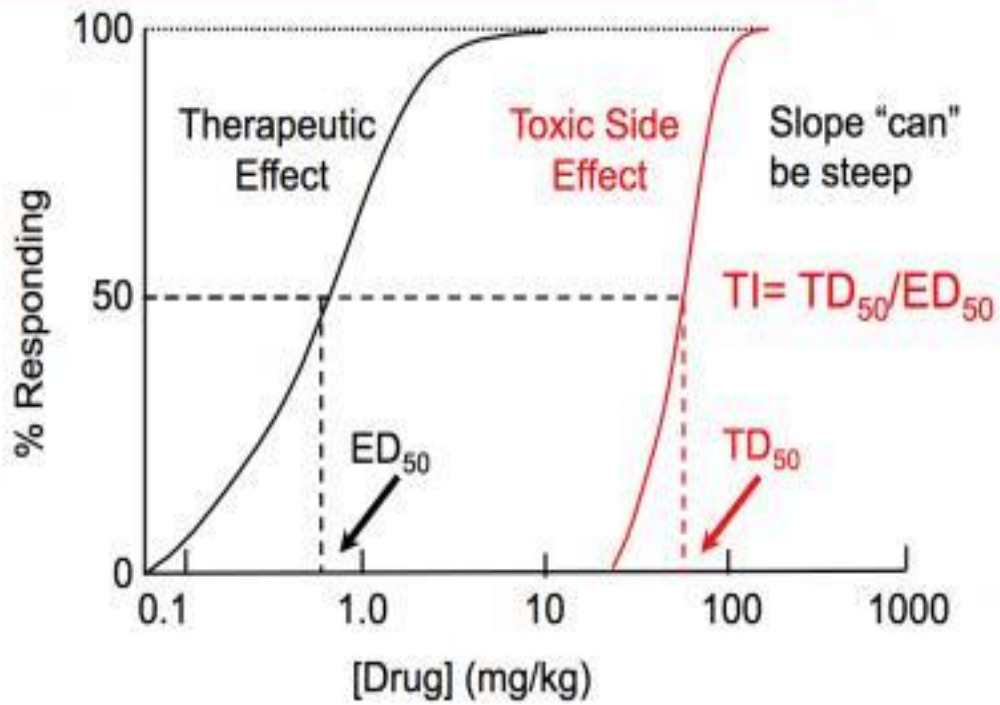
21	U21BS024	D. THANGADURAI
22	U21BS025	VIGNESH K
23	U21BS026	ARUNKUMAR. B
24	U21BS027	MALVIKA SINHA
25	U21BS028	THANDRA KEERTHI
26	U21BS029	RAVIRALA NIKHIL
27	U21BS030	SRIMANTHULA MAHIRTHANA
28	U21BS031	GITANJALI SHARMA
29	U21BS032	D.NETHAJI
30	U21BS033	L. ASHWANI
31	U21BS034	SRINATH.B
32	U21MI001	AKASH K
33	U21MI002	G.BHARATH
34	U21MI003	H.BHARATH
35	U21MI004	CATHERIN JENITA
36	U21MI005	DEVI GOPAL
37	U21MI006	P.DIVYA
38	U21MI007	S K EZHILARASI
39	U21MI008	S. P. GIRINATH
40	U21MI009	HARINI. G
41	U21MI010	KAMALA LAKSHMI S
42	U21MI011	S. KAVIYARASU
43	U21MI012	KEERTHIKA S
44	U21MI013	K.MEGANATHAN

45	U21MI014	PAVITHRA R
46	U21MI015	RAJESH V
47	U21MI016	RAKSHITHA.S
48	U21MI017	SALMAN BASHA .H
49	U21MI018	SAMUVEL B
50	U21MI019	SANDHYA.J
51	U21MI020	M. SELVAPRIYA
52	U21MI021	D.SHERLIN
53	U21MI022	SHERLY KARUNYA
54	U21MI024	SUBHASHREE P.M.
55	U21MI025	L. SUMITHRA
56	U21MI026	SUNDAR.P
57	U21MI027	A.SUTHISH
58	U21MI028	SWAPNA BISWAS
59	U21MI029	P. J. URJITHA
60	U21MI030	T.VASANTH VEDHAMANICKAM
61	U21MI031	VINDHYA.E
62	U21MI032	VINITHA.S

Value Added Course

Certificate course on Toxicological Techniques

Drug Safety - Therapeutic Index





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CHENNAI – 73.

Topic : Certificate course on Toxicology

Type of course: Value Added Course

School of Basic sciences

Pre Requisites: +2 Biology

Course Duration: 30 hours

Intended Audience: Basic science students

Industries Applicable to: Schedules, project plans, manage resources and keep track of time of basic science project

Coordinator: Dr. V. Padmapriya

Objective:

1. To provide diagnostic testing for heavy metal content (lead and copper) in serum, urine and blood samples.
2. Learn to conduct and provide in vitro and in vivo scientific data on toxicological and pharmacological effects of selected plants or herbal extracts.
3. Learn to establish toxicology testing using other animal models.
4. Learn to provide educators with a presentation and text on essential toxicology from which they can select material appropriate for local requirements
5. Learn to explain fundamental ideas in toxicology clearly so that students can understand the hazards and risks associated with chemicals
6. Learn to point out the relationship between dose and effect
7. Learn to point out that natural substances may be highly poisonous and manmade substances may be of low toxicity

Outcomes:

- Students ability to explain how substances move through our environment, Toxicology/ Critical care Medicine
- Students ability to explain how effective exposure depends on physiological route of exposure, Managing Patients on Mechanical Ventilators
- Students ability to explain how toxic effects depend upon how the body reacts with chemicals.
- Student ability to work on pesticides, plastics, food particles, and drugs
- Student ability to know the Significance of Hemodialysis, Echocardiography & Ultrasonography in practical Critical Care.

COURSE OUTLINE:

This course guides students through fundamental concepts of Certificate Course on Toxicological Techniques. Concepts and skills needed to benefits in profit and non-profit organisation

Training courses are through and succinct; structured to maximize learning by adopting an approach of explanation, demonstration, and practice teaching. Students are given hands on access to Certificate Course on Toxicological Techniques.

This course provides the knowledge, understanding and practical experience need to forge a rewarding career in research and development in the pharmaceutical, bioscience or healthcare sectors, develop.

- Clinic Entrance and Competency Exams—No class meeting. Assessment exam of previous material in basic science courses -- biochemistry, signal transduction, genetic transcription, nutrition, cell physiology, systemic physiology.
- The instructor will present fundamental pharmacokinetic and pharmacodynamic topics of pharmacology and toxicology—efficacy, effectiveness, potency, biological half-life, bypass of 1st-pass hepatic metabolism, agonist/antagonist bioactivity, affinity and protein receptors, clearance, therapeutic index.
- The instructor will present detoxification pathways and mechanisms—Cytochrome P450 enzyme system, induction, Biotransformation Phase I,

Biotransformation Phase II, bioconjugating agents, drug-drug and drug-herb interactions, elimination pathways, and bioaccumulation.

- The instructor will present applications and examples in toxicology—acetaminophen, ethyl alcohol, polyaromatic hydrocarbons, induced deficiencies, genomic and metabolic impact. The instructor will lead a discussion in chiropractic and holistic perspective to managing toxic exposure.
- The instructor will present applications of pharmacology and toxicology—environmental toxins, metal toxicities, chelation chemistry and therapies. Instructor will post the take-home midterm exam to the Canvas site.
- Midterm Examination due. The instructor will present applications of pharmacology and toxicology—personal care products, phthalates, xenobiotics, nutritional supplementation and interactions, vitamins and minerals, and endocrine disruptors.
- The instructor will present pharmacological applications—hypoglycemic drugs, metformin, glitazones, and sulfonylureas. Instructor will lead discussion of holistic management of prediabetic state and metabolic syndrome.
- The instructor will present pharmacological applications—anxiolytic drugs, benzodiazepines, antidepressant drugs, SSRIs/SNRIs, MAOIs and serotonin syndrome. 9th Week: The instructor will present pharmacological applications—pain medications, NSAIDs, opioids, neurogenic analgesic drugs, salicylism, eicosanoid chemistry, cox-2 inhibitors, respiratory burst and inflammatory response



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CHENNAI – 73.

Value Added Course: Certificate course on Toxicological Techniques
Course Code: BIHER/BIST/MIBT/SPL/2021
Course Duration: 30 Hrs Content of Syllabus

S. No	Syllabus details	No. of lecture Hours	Date	Time	Lecture Name
1	Biochemistry, signal transduction, genetic transcription, nutrition, cell physiology, systemic physiology.	2 Hrs	20.12.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
2	Fundamental pharmacokinetic and pharmacodynamic topics of pharmacology	2 Hrs	21.12.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
3	Cytochrome P450 enzyme system, induction, Biotransformation Phase I, Biotransformation Phase II.	2 Hrs	22.12.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
4	Bio conjugating agents, drug-drug and drug-herb interactions, elimination pathways, and bioaccumulation	2 Hrs	23.12.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
5	Acetaminophen, ethyl alcohol, polyaromatic hydrocarbons, induced deficiencies, genomic and metabolic impact.	2 Hrs	27.12.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
6	Chiropractic and holistic perspective to managing toxic exposure.	2 Hrs	28.12.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
7	Applications of pharmacology and toxicology— environmental toxins, metal toxicities, chelation chemistry and therapies	2 Hrs	29.12.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
8	Instructor will post the take-home midterm exam to the Canvas site.	2 Hrs	30.12.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
9	Toxicology-efficacy, effectiveness, potency, biological half-life	2 Hrs	03.01.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
10	Pharmacological applications—hypoglycemic drugs, metformin, glitazones, and sulfonylureas.	2 Hrs	04.01.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
11	Instructor will lead discussion of holistic management of prediabetic state and metabolic syndrome.	2 Hrs	05.01.2022	10.00 am-12.00 pm	Dr. V. Padmapriya

12	Pharmacological applications—anxiolytic drugs, benzodiazepines, antidepressant drugs, SSRIs/SNRIs,	2 Hrs	06.01.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
13	MAOIs and serotonin syndrome. 9th Week: The instructor will present pharmacological applications—pain medications, NSAIDs,	2 Hrs	07.01.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
14	opioids, neurogenic analgesic drugs, salicylism, eicosanoid chemistry, cox-2 inhibitors,	2 Hrs	10.01.2022	10.00 am-12.00 pm	Dr. V. Padmapriya
15	Respiratory burst and inflammatory response	2 Hrs	11.01.2022	10.00 am-12.00 pm	Dr. V. Padmapriya



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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY


School of Basic Sciences

CERTIFICATE OF PARTICIPATION

This is to certify that **KALKINATHAN .L** from BIHER has participated in Value added course on “**Certificate Course on Toxicological techniques**”, conducted by School of Basic Science , BIHER, in association with Biozone Research Technologies PVT Ltd.,Chennai-117. from December 20,2021 to January 11,2022.




Dr. V. Padmapriya
Course Co-ordinator



Dr. VASUKIDEVI RAMACHANDRAN, M.Sc., Ph.D.,
Professor and Head,
Department of Microbiology and Biotechnology,
Faculty of Arts and Science,
Bharath Institute of Higher Education and Research,
Chennai - 73.

Dr. R. Vasukidevi
Convenor



Dean-Faculty of Arts & Science
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University UGC Act 1956)
Chennai-600 073, INDIA

Dr. A. Muthukumaravel
Dean - Arts and Science

S.no	Email Address	Name of the Participant	Name of the College / Industry	Designation	Department	Phone number	Rating for the certificate course	Feedback
1	ravuaia770@gmail.com	RAVIRALA NIKHIL	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	6385911411	5	Excellent
2	kla148@gmail.com	L. KALGINATHAN	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8220754401	4	Good
3	n.dhanan2924@gmail.com	N.DHANUSH	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9223674312	5	Excellent
4	viperviper720@gmail.com	A.Divya	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9238886325	5	Valuable Webinar
5	ishwarih3471@gmail.com	R. Ishwarya	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9139254185	5	very informative
6	- jenijaishankar2020@	Jaya Rekha	Bharath Institute of Higher	Student	Department of Microbiology and	8780316072	5	Excellent

	gmail.com -		Education and Research, Chennai.		Biotechnology			
7	kneelaveni636@gmail.com	JAYA SURIYA VA	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	7305615818	3	Good
8	babykanchu69@gmail.com	Jishnu pradeep	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9361167513	3	Good
9	lakshmivelu0912@gmail.com	B. Nishalakshmi	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8754478231	4	Informative webinar
10	lavanlavan Kumar662@gmail.com	M.Lokesh	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9962515533	5	useful
11	mahaguru3909@gmail.com	Malini. D	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9962340821	4	Thanks for organizing such a nice webinar
12	kaniravikaniravi@gmail.com	M. Megavarshini	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9941178850	3	Good

13	Manojkumar.p2002mk@gmail.com	Nithyasree P N	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9361664281	4	Good
14	amohanapriya253@gmail.com	Durga Chennakesava rao. Pamarthi	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	7339002019	4	Good
15	aramonika0@gamil.com	W.Rokhiakathun	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8704001516	4	Nice
16	mmoses3732@gmail.com	SANDHIYA. T	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	7358307269	4	Good
17	Nivedhak477@gmail.com	B VAISHNAVI	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8754430212	4	very informative
18	pavisri0811@gmail.com	Chanakya Hazarika	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9025465221	4	Useful session
19	22ram2003@gmail.com	Purusothaman	Bharath Institute of Higher Education	Student	Department of Microbiology and Biotechnology	9047334943	4	Good

			and Research, Chennai.					
20	rajsamuel641@gmail.com	Vignesh K	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	63794331 25	4	Informa tive weninar
21	<a href="mailto:mshellytan
ya03@gmail.com">mshellytan ya03@gmail.com	D. THANGAD URAI	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	81051335 01	5	useful
22	angelsowm iya.s@gmail.com	ARUNKUM AR. B	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	73058704 62	5	Good
23	subashreal me05c@gmail.com	Malvika sinha	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	93841714 85	5	Nice
24	agalyamicro@gmail.com	Thandra keerthi	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	94440882 47	4	Informa tive weninar
25	ajith.micro 08@gmail.com	Srimanthula Mahirthana	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	94444620 90	4	useful
26	aneenaanil	Gitanjali	Bharath	Student	Department of	62388521	4	Nice

	1@gmail.com	Sharma	Institute of Higher Education and Research, Chennai.		Microbiology and Biotechnology	98		topics
27	anjalivijayan1002@gmail.com	D.nethaji	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	7591922295	4	Very useful study material
28	dropout2y5@gmail.com	L. Ashwani	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8838849196	5	Good
29	mc12262002@gmail.com	Srinath.B	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	7825938540	4	Good
30	thulasipriya1022@gmail.com	Akash K	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8051771999	4	useful
31	crazydayan7@gmail.com	G.Bharath	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8807242387	3	Not bad
32	rdhanalakhmi.micro@gmail.com	H.Bharath	Bharath Institute of Higher Education and	Student	Department of Microbiology and Biotechnology	9944589334	5	Good

			Research, Chennai.					
33	ezhilarasi12micro@gmail.com	Catherin Jenita	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	7448477025	4	Excellent
34	fayashusain08@gmail.com	Devi Gopal	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	7592896292	4	Good
35	mgowri694@gmail.com	P.Divya	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology		5	Good
36	gowrip0720@gmail.com	S K Ezhilarasi	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8925646251	4	Good
37	gurumoorthi.micro@gmail.com	S. P. GIRINATH	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9600581866	5	Excellent
38	hariprasadmicro25@gmail.com	Harini. G	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8610422604	5	Valuable Webinar
39	Keerthana.micro1@g	Kamala	Bharath Institute of	Student	Department of Microbiology	9094016082	4	Informative

	amil.com	lakshmi S	Higher Education and Research, Chennai.		and Biotechnology			weninar
40	kumutha2002.micro@gmail.com	S. Kaviyarasu	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8939180658	4	Informative weninar
41	liyamole.microbiology@gmail.com	KEERTHIK A S	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	6235481274	5	Very good
42	lokesh.micro3113@gmail.com	K.MEGANATHAN	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9790845873	5	The lecturer gave a detailed explanation
43	mahalakshmi2003.micro@gmail.com	Pavithra R	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9360332391	4	Good
44	manjula.microbiology@gmail.com	RAJESH V	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9150472373	3	Not bad
45	Monikamani1828@gmail.com	Rakshitha.S	Bharath Institute of Higher Education and Research,	Student	Department of Microbiology and Biotechnology	9566177241	5	Good

			Chennai.					
46	Monisha.micro1731@gmail.com	Salman Basha .H	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9087023653	5	Verymuch informative. Trainer explained in a detailed manner
47	muruga1996tec@gmail.com	Samuvel B	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9361476607	4	Good
48	Nitishkumar saravana n97@gmail.com	Sandhya.J	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9578103836	4	Excellent
49	nivetha29032003@gmail.com	M. Selvapriya	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9791055732	5	Excellent
50	meenamari48@gmail.com	D.sherlin	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9514897471	4	Good
51	porchelvan1707.micro@gmail.com	Sherly Karunya	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	9791799340	5	Good
52	pradeep30	SUBHASHR	Bharath	Student	Department of	73056195	4	Good

	2002@gmail.com	EE P.M.	Institute of Higher Education and Research, Chennai.		Microbiology and Biotechnology	16		
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54	rameshpus hpa.micro2 003@gmail l.com	Sundar.p	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	90259774 83	4	Very useful
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56	hi.micro@ gmail.com	Swapna Biswas	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	87544235 70	5	Valuabl e Webina r
57	vrvrakul00 3@gmail.c om	P. J. URJITHA	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	99876543 10	4	Valuabl e Webina r
58	phadiyan3@gmail.com	T.vasanth vedhamanick am	Bharath Institute of Higher Education and	Student	Department of Microbiology and Biotechnology	73657900 82	3	Need time manage ment

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60	Devi an@gmail.com	Vinitha.S	Bharath Institute of Higher Education and Research, Chennai.	Student	Department of Microbiology and Biotechnology	8735462980	4	Fair