

K.S.RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS),


TIRUCHENGODE-637 215

Department of Microbiology

VALUE ADDED COURSE

Details for the Academic Year 2020-2021

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PRINCIPAL
K. S. Rangasamy College of Arts & Science
(Autonomous)
TIRUCHENGODE - 637 215
Namakkal-Dt, Tamil Nadu, INDIA

K.S.RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

TIRUCHENGODE- 637 215

DEPARTMENT OF MICROBIOLOGY

VALUE ADDED COURSE

The Department of Microbiology is established in the year 1995 by offering UG, PG and research programmes. The college has been promoted as Autonomous institution in the year 2009 and the Department offers many courses based on the local, regional and global need. The Microbiology Department offers certificate courses for other Department students. The certificate courses offered by the Department are

Basics of Microbiology (Odd semester) and


Beneficial Microbes in Human Health (Odd Semester)


Duration of the certificate course- 30 Hours/ Semester

Basics of Microbiology deal with the history and developments in Microbiology. Principles and applications of various microbiological techniques provide platform to establish diagnostic labs. It also covers with the elimination of microbes and antimicrobial chemotherapy. The objective of the course is to provide basic microbiological knowledge to the student society thereby make them to achieve healthy environment.

Understanding the beneficiary role of microorganisms provide entrepreneurial ship. Their nutritive value and compatible nature contributes more self employment. It also provides therapeutic knowledge for effective disease management in current scenario. The aim of the course render the technical skills to establish small scale industries.

At the end of the certificate course, a certificate will be issued to the participants.


PRINCIPAL
K. S. Rangasamy College of Arts & Science
(Autonomous)
TIRUCHENGODE - 637 215
Tamil Nadu


HEAD
Department of Microbiology
K.S.Rangasamy College of Arts & Science
(Autonomous),
TIRUCHENGODE - 637 215.



K.S.Rangasamy College of Arts and Science (Autonomous)

NAAC Reaccredited and an ISO Certified Institution

Affiliated to Periyar University, Salem

Included under 2(f) & 12(B) of UGC Act, 1956

KSR Kalvi Nagar, Tiruchengode- 637 215

Namakkal District, Tamil Nadu, India

Value Added Courses Offered by Microbiology Department



Academic Year 2020- 2021

COURSE NAME

SEMESTER

Beneficial Microbes in Human Health

-


ODD

Reach us @ www.ksrcas.edu

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Namakkal-Dt. Tamil Nadu, INDIA

18MBCC01	BENEFICIAL MICROBES IN HUMAN HEALTH	SEMESTER : ODD
Course Objectives: The course aims <ul style="list-style-type: none"> To learn the basic concepts and applications of Microbiology 		
Total Hours: 30		
UNIT	CONTENTS	Hrs of Execution
I	Probiotics: Role of probiotics in human health- <i>Lactobacillus</i> , <i>Bacillus megaterium</i> , <i>Bifidobacterium</i> .	06
II	Microbes in Daily life: Curd, Yoghurt, Idly, Dosa, Cheese, bread	06
III	Microbial Proteins: SCP- <i>Spirulina</i> , Oyester mushroom, milky mushroom	06
IV	Microbial Beverages: Production of Wine and its types, Beer, Bakers yeast	06
V	Micobial Drugs: Penicillin, Streptomycin, Interferon	06
Text Book:		
1.	Satyanarayana U. 2017. Biochemistry (Fifth Edition), Elsevier, India.	


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 (Autonomous),
 TIRUCHENGODE - 637 215.

K.S.Rangasamy College of Arts and Science (Autonomous)

Tiruchengode- 637 215

Department of Microbiology

BOS (2018-2019)

Percentage of Syllabus Revision

The following are the percentage of syllabus revision made in B.Sc., Microbiology for the first year (2018-2019)

Semester	Subject Name and Code	Modifications	% of change
I	CORE I: Basics in Microbiology 18UMB101	<ul style="list-style-type: none">• Contents are good.• Syllabus can be completed within instruction hours.	10
I	Core Practical I 18UMBMP101	<ul style="list-style-type: none">• Accepted as it is.	10
I	Core II: Microbial Taxonomy and Physiology 18UMB201	<ul style="list-style-type: none">• Contents were added in Unit I, II and IV.• Topics rearranged in Unit IV and V.• Specifications were added for certain topics in Unit V.	20
II	Core Practical II 18UMBMP201	<ul style="list-style-type: none">• Instructions given to remove the experiments - starch hydrolysis and gelatin hydrolysis.	10
II	Allied II : Microbiology (For B.Sc., Biochemistry) 18UMBBCA201	<ul style="list-style-type: none">• Accepted.	10
II	Allied Practical II : Microbiology (For B.Sc., Biochemistry) 18UMBBCAP201	<ul style="list-style-type: none">• Accepted.	10
II	Value Added Course: Beneficial Microbes in Human Health 18MBCC01	<ul style="list-style-type: none">• Value added courses will be introduced and approved in third semester.	-

The percentage of syllabus revision carried out in first year is **11.66%**



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BOS Chairman

K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode-637 215

Department of Microbiology

Circular

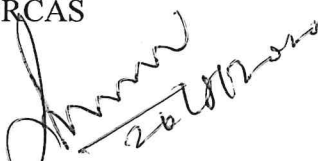
Date: 26.08.2020

From	To
The Head	All HOD's
Department of Microbiology	Students of All Departments

Our Department has planned to conduct a certificate course on "Beneficial Microbes in Human Health" in this semester. Total duration of this course is 30 hours. The course starts from 1st September and ends by October. Students who are all interested may enroll their name to the course coordinator. The certificate course will be conducted after the class hours (4:15 PM to 5.15 PM). At the end of the course, certificate will be issued.

Students are advised to meet the following staff for registration.

Dr. L. Ramkumar,
Course Coordinator,
Department of Microbiology,
KSRCAS


Staff In-charge Signature


Head of the Department

HEAD
Department of Microbiology
K.S.Rangasamy College of Arts & Science
(Autonomous),
TIRUCHENGODE - 637 215.



Principal
PRINCIPAL
K. S. Rangasamy College of Arts & Science
(Autonomous)
TIRUCHENGODE - 637 215
Tamil Nadu

K.S.Rangasamy College of Arts and Science (Autonomous)

Tiruchengode 637 215

DEPARTMENT OF MICROBIOLOGY

Course Name: Beneficial Microbes in Human Health


Course Code:18MBCC01

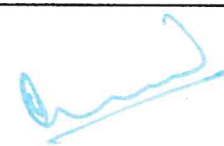
WILLING STUDENT LIST

S.No	Reg.No	Student Name	Signature
1	19UBA004	AJAY.K	Ajay.K
2	19UBA026	DIWAKAR.S.	S. Diwakar
3	19UEN003	ANUSHA.T.N	T. N. Anusha.
4	19UEN033	KUMARESAN.L	Kumaresan.L
5	19UEL004	CHANDRU.K	K. Chandru.
6	19UEL041	TAMILARASAN.S	Tamilarasan.S
7	19UTA014	HARIPRIYA.S	Haripriya.S
8	19UTA043	RANJITH.R	Ranjith.R.
9	19UTA051	SOWMIYA.E.	E. Sowmya.
10	19UTA028	MUTHURASU.R	R. Muthurasu.
11	19UPH007	BRINDHA.R	Brindha.R.
12	19UPH016	DINESHKUMAR.K.J	K.J. Dineshkumar
13	19UPH040	NIRANJANA.K	K. Niranjana
14	19UPH054	SUBAVANI.M.P	Subavani.M.P.
15	19UBT007	BHUVANESHWARI.B	B. Bhuvaneshwari
16	19UBT023	JOTHINI.B.R	Jothini B.R.
17	19UBT062	SNEKA.R	Sneha.R.
18	19UBT077	UVASRI.G	Uvasri.G.
19	19UBT083	YUGESH.P.R	Yugesh.P.R.
20	19UCO022	KOWSHIKA.S	Kowshika.S.
21	19UCO029	MUGUNDHAN.S	Mugundhan.S.
22	19UCO052	TAMILSELVAN.G	Tamilselvan.G.
23	19UCH010	GOKUL SIGAMANI	Gokul Sigamani
24	19UCH018	KISHOAR.R	Kishor.R.
25	19UCH033	RAMAN.M	Raman.M.
26	19UTF002	BUVANESWARAN.S	Buvaneshwaran.S.

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27	19UTF016	MADHUMITHA.L	M. Dhumitha L
28	19UCC002	AMARNATH.K	Amarnath k
29	19UCC056	KARTHIKEYAN.V	Karthikeyan V
30	19UCC061	KAVINKUMAR.S	Ka L K. S.
31	19UCC066	KIRUBHA.S	Kiruba S.
32	19UCC074	MATHESWARAN.R	Matheswaran R
33	19UCC169	VINITHA.A	Vinitha A.
34	19UCA027	BABY.K	Baby K.
35	19UCA170	RAMYA.S	Ramya S.
36	19UCA013	ANANTHKUMAR.K	Ananthkumar K.
37	19UCA031	BHARATHKUMAR.D	Bharath Kumar D.
38	19UCA137	NAGAPRADEEP.N	Naga Pradeep N.
39	19UCA225	THAILESH.R	Thalesh R.
40	19UMA047	SAMSOON NISHA.J	Samsun Nisha J.
41	19UMA060	SOWMIYA.V	Sowmya V.
42	19UMA027	MANISOWNDHARI.C	Manisowndhari C.
43	19UMA064	SUBASHIREE.P	Subashiree P.
44	19UCS031	DESINGURAJA.S.A	Desinguraja S.A.
45	19UCS052	GIRIDHARAN.R	Giridharan R.
46	19UCS162	RANJITH.K	K. Ranjith
47	19UCS051	GAYATHRI.S	Gayathri S.
48	19UCS062	GURUPRIYAN.R	Gurupriyan R.
49	19UCS155	PRIYANKA DEVI.N	Priyanka Devi N.


26/8/2022
Course Co-ordinator


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TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA


26/8/2022
Head of the Department

S.No.	Reg. No.	Student Name	SEPTEMBER - 2020															
			01	02	04	07	09	10	11	14	16	18	21	23	25	28	30	
1	19UBA004	AJAY.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	19UBA026	DIWAKAR.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	19UEN003	ANUSHA.T.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	19UEN033	KUMARESAN.L	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	19UEL004	CHANDRU.K	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/
6	19UEL041	TAMILARASAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	19UTA014	HARIPRIYA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	19UTA043	RANJITHR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	19UTA051	SOWMIYA.E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	19UTA028	MUTHURASU.R	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
11	19UPH007	BRINDHA.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	19UPH016	DINESHKUMAR.K.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	19UPH040	NIRANJANA.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	19UPH054	SUBAVANI.M.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	19UBT007	BHUVANESHWARI.B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	19UBT023	JOTHINI.B.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	19UBT062	SNEKA.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	19UBT077	UVASRI.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	19UBT083	YUGESH.P.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	19UCO022	KOWSHIKA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	19UCO029	MUGUNDHAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	19UCO052	TAMILSELVAN.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Signature of Head of Department
TIRUCHENGODE-637215
K.S. Rangasamy College of Arts & Science

S.No.	Reg. No.	Student Name	OCTOBER-2020														
			01	02	05	07	08	09	12	14	15	17	19	21	23	28	29
1	19UBA004	AJAY.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	19UBA026	DIWAKAR.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	19UEN003	ANUSHA.T.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	19UEN033	KUMARESAN.L	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	19UEL004	CHANDRU.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	19UEL041	TAMILARASAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	19UTA014	HARIPRIYA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	19UTA043	RANJITH.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	19UTA051	SOWMIYA.E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	19UTA028	MUTHURASU.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	19UPH007	BRINDHA.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	19UPH016	DINESHKUMAR.K.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	19UPH040	NIRANJANA.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	19UPH054	SUBAVANI.M.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	19UBT007	BHUVANESHWARI.B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	19UBT023	JOTHINI.B.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	19UBT062	SNEKA.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	19UBT077	UVASRI.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	19UBT083	YUGESH.P.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	19UCO022	KOWSHIKA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	19UCO029	MUGUNDHAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	19UCO052	TAMILSELVAN.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Principal
A. S. Rangasamy
K.S.Rangasamy College of Arts & Science
Tiruchengode
637 215
INDIA

K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode- 637 215

DEPARTMENT OF MICROBIOLOGY

MARK STATEMENT

Course Name: Beneficial Microbes in Human Health

Course Code: 18MBCC01

S.No	Reg.No	Student Name	Assign 1 10	Assign II 10	Test 75	Att (%)	Attend 5	Total 100
1	19UBA004	AJAY.K	10	10	57	100	5	82
2	19UBA026	DIWAKAR.S	10	10	61	100	5	86
3	19UEN003	ANUSHA.T.N	10	10	52	100	5	77
4	19UEN033	KUMARESAN.L	10	10	55	100	5	80
5	19UEL004	CHANDRU.K	9	10	45	91	4	68
6	19UEL041	TAMILARASAN.S	10	10	42	100	5	67
7	19UTA014	HARIPRIYA.S	10	10	43	100	5	68
8	19UTA043	RANJITH.R	10	9	60	100	5	84
9	19UTA051	SOWMIYA.E	9	10	55	100	5	79
10	19UTA028	MUTHURASU.R	10	10	54	93	4	78
11	19UPH007	BRINDHA.R	10	9	47	100	5	71
12	19UPH016	DINESHKUMAR.K.J	10	10	45	92	4	69
13	19UPH040	NIRANJANA.K	10	10	45	100	5	70
14	19UPH054	SUBAVANI.M.P	10	10	48	99	5	73
15	19UBT007	BHUVANESHWARI.B	10	9	42	91	5	66
16	19UBT023	JOTHINI.B.R	10	10	56	100	5	81
17	19UBT062	SNEKA.R	10	10	52	100	5	77
18	19UBT077	UVASRI.G	10	10	52	99	5	77
19	19UBT083	YUGESH.P.R	9	10	58	100	5	82
20	19UCO022	KOWSHIKA.S	9	9	47	100	5	70
21	19UCO029	MUGUNDHAN.S	10	10	42	100	5	67
22	19UCO052	TAMILSELVAN.G	10	10	41	100	5	66
23	19UCH010	GOKUL SIGAMANI	10	10	55	100	5	80
24	19UCH018	KISHOAR.R	10	10	55	100	5	80
25	19UCH033	RAMAN.M	10	10	43	100	5	68
26	19UTF002	BUVANESWARAN.S	10	10	42	100	5	67

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27	19UTF016	MADHUMITHA.L	10	10	57	100	5	82
28	19UCC002	AMARNATH.K	10	10	43	100	5	68
29	19UCC056	KARTHIKEYAN.V	10	9	45	92	4	68
30	19UCC061	KAVINKUMAR.S	10	10	54	100	5	79
31	19UCC066	KIRUBHA.S	10	9	51	100	5	75
32	19UCC074	MATHESWARAN.R	10	10	53	100	5	78
33	19UCC169	VINITHA.A	9	9	47	100	5	70
34	19UCA027	BABY.K	10	10	45	100	5	70
35	19UCA170	RAMYA.S	10	10	50	100	5	75
36	19UCA013	ANANTHKUMAR.K	10	10	52	100	5	77
37	19UCA031	BHARATHKUMAR.D	10	10	50	100	5	75
38	19UCA137	NAGAPRADEEP.N	10	10	50	100	5	75
39	19UCA225	THAILESH.R	10	10	43	100	5	68
40	19UMA047	SAMSOON NISHA.J	10	9	47	100	5	71
41	19UMA060	SOWMIYA.V	10	9	46	100	5	70
42	19UMA027	MANISOWNDHARIC	10	10	43	100	5	68
43	19UMA064	SUBASHIREE.P	10	10	43	100	5	68
44	19UCS031	DESINGURAJA.S.A	9	9	55	100	5	78
45	19UCS052	GIRIDHARAN.R	10	10	57	100	5	82
46	19UCS162	RANJITH.K	10	9	53	100	5	77
47	19UCS051	GAYATHRIS	9	10	53	92	4	76
48	19UCS062	GURUPRIYAN.R	10	9	55	91	4	78
49	19UCS155	PRIYANKA DEVLN	10	10	55	100	5	80


Staff In-charge
Dr.L.Ramkumar




HoD
Mr.K.S.Shanmugam

Principal
Dr.V.Radhakrishnan

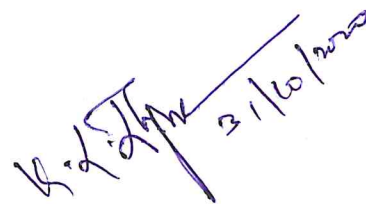
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Namakkal-Dt. Tamil Nadu, INDIA

**K.S.Rangasamy College of Arts and Science (Autonomous),
Tiruchengode- 637 215
Value Added Course- Beneficial Microbes in Human Health - Feedback
2020-2021**

This value added course offer skill-based platform about helpful microorganisms and their encouraging part in public health. Totally, 49 participants were attended from various disciplines of UG second year students including Tamil, English, Mathematics, Physics, Chemistry, and Commerce. They actively participated and enjoyed the course. They learn the basic concept of probiotics and its health benefits. They gained more information about microbial beverages and its production. They really took delight about microbial drugs and its therapeutic impact. They were excited to know about mushroom cultivation. Lastly, most of them realize the importance of the course and showed interest in self employability.



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HEAD
Department of Microbiology
K.S.Rangasamy College of Arts & Science
(Autonomous),
TIRUCHENGODE - 637 215.



K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS),

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KSR Kalvi Nagar, Tiruchengode -637 215, Tamil Nadu.

Certificate

This is to certify that AIJAY K of II BSc BA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

Dr.L.Ramkumar

Course Co-ordinator

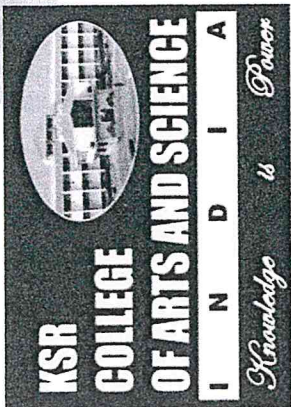
Mr.K.S.Shanmugam

Head of the Department

Dr.V.Radhakrishnan

Principal

PRINCIPAL
A. S. Rangasamy College of Arts & Science
(Autonomous)
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KSR Kalvi Nagar, Tiruchengode -637 215, Tamil Nadu.

Certificate

This is to certify that DIWAKAR S of II Bsc BA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

Dr.L.Ramkumar

Course Co-ordinator

Mr.K.S.Shanmugam

Head of the Department

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This is to certify that ANUSHA T.N of B.Sc. EN has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

Dr.L.Ramkumar

Course Co-ordinator

Mr.K.S.Shanmugam

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This is to certify that KUMARASAN. J. of TI BSC EN has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

Dr.L.Ramkumar

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Certificate

This is to certify that CHANDRU K of IT Bsc FL has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that TAMILARASAN S of IT BSC.EL has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

Dr.L.Ramkumar

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This is to certify that HARTPRIYA S of B.Sc.TA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that RANITHALP of IBSc TA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

Dr.L.Ramkumar

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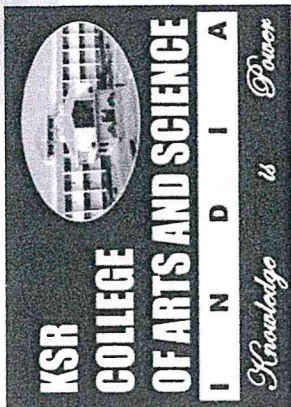
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This is to certify that MUTHURASU R of B.Sc. TA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that BRINDHA R of BSC PH has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

Dr.L.Ramkumar

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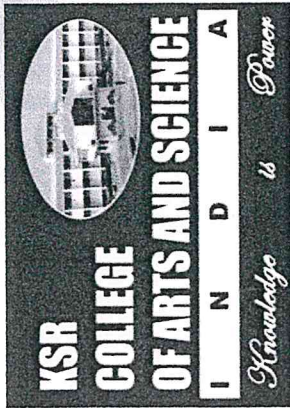
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This is to certify that DINESHKUMAR.K.T of IBSL.DH has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that MIRANTANA K of IT BSc PH has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that SUBAVANTI M P of II Bsc PH has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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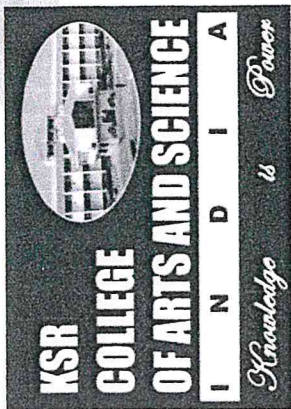
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This is to certify that KOWSHIKA S of II B.COM has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that MUGUNDHAN S of I B.COM has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that TAMILSELVAN G of B.COM has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that ANOKUL SIVAGANANTH of B.A.C. CH has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

Dr.L.Ramkumar

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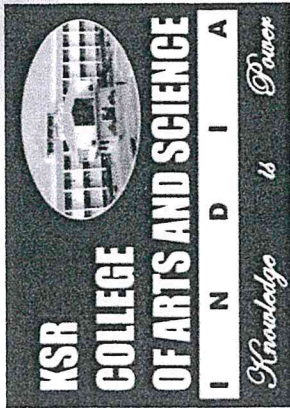
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This is to certify that KTSHOAR R of B.Sc. CH has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that RAMAN M of IT BSc CH has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that BUVANESHWARAN S of B.Sc. TF has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that MADHUMITHA I of IT BSc TE has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that AMARNATH K of I BCOM CA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that KARTHIKEYAN V of ILBOMCA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that KAVINKUMAR S of IL BCOM / A has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that KIRUBHA S of T. BLOM CA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the *Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.*

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This is to certify that BABY K of I. B.A. has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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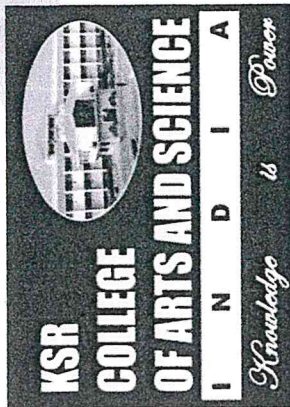
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This is to certify that **BHARATHKUMAR S. D** of **I BCA** has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that SAMSOON ATISHA J of BSc MA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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This is to certify that SOWMIYA . V of II -B.Sc.MA has completed a Value Added Course in *Beneficial Microbes in Human Health* during the academic year 2020- 2021 ODD Semester conducted by the Department of Microbiology, K.S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode.

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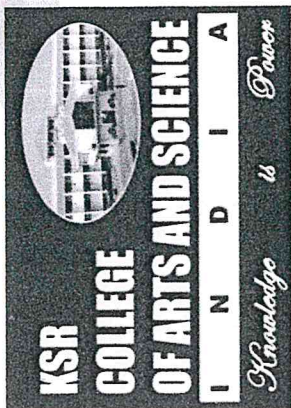
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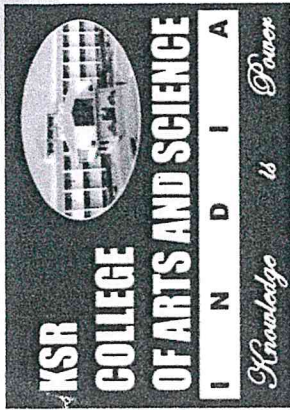
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