

K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE

(Autonomous)

Tiruchengode-637215



**DEPARTMENT OF BIOCHEMISTRY**

**Certificate Course: Biochemistry and Phenomena of Life (2019-2020)-Index**

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**K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
TIRUCHENGODE-637215**

**DEPARTMENT OF BIOCHEMISTRY**

**CIRCULAR**

**Date: 08.07.2019**

**From**

**The Head**

**Department of biochemistry**

**To**

**All HODs**

**All Department Students**

It is our pleasure to inform you all that the Department of Biochemistry has planned to conduct a certificate course on "Biochemistry and Phenomena of Life (18BCCC01)" this semester. The course will commence from 05.08.2019 and the duration of this course is for 30 hours. So, we welcome the interested students to enroll their names to the course coordinator. This certificate course will be conducted after the regular class hours (4:15 to 5:15 PM). The certificate will be provided to the successful candidates at the end of the course.

Interested students are advised to contact the following course coordinator for registration

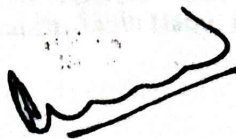
**Dr. S. Vadivukkarasi**


**Assistant Professor**

**Department of Biochemistry**

**KSRCAS**

  
Course Coordinator

  
Principal

  
Head of the Department

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Department of Biochemistry  
K.S.Rangasamy college of Arts & Science  
Tiruchengode - 637 215

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**DEPARTMENT OF BIOCHEMISTRY**

**CIRCULAR**

**Date: 29.07.2019**

**From**

**The Head**

**Department of biochemistry**

**To**

**All HODs**

**All Department Enrolled Students**

It is informing you all that the certificate course on “**Biochemistry and Phenomena of Life (18BCCC01)**” classes will commence from 05.08.2019 at 4:15 to 5:15 PM. So, we request all the registered students to attend the classes without fail. The venue of the class is PG Laboratory (AGO2), Department of Biochemistry, K.S. Rangasamy College of Arts and Science.



Course Coordinator



Head of the Department



Principal.

**HEAD**  
Department of Biochemistry  
K.S.Rangasamy college of Arts & Science  
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**K.S. Rangasamy College of Arts and Science (Autonomous)**

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**DEPARTMENT OF BIOCHEMISTRY**

**Subject Name: Biochemistry and Phenomena of Life**

**Course Code: 18BCCC01**

**List of Candidates Willing to Join in Course (2019-2020)**

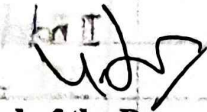
S. No	Name of the Student	Department	Signature
1	HARIHARAN . M	II . B . Com	[Signature]
2	MADHAVAN S	II . B . Com	[Signature]
3	MANOLKUMAR . S	II . B . Com	[Signature]
4	BDOBALAN . M	II - B.Sc Chemistry	[Signature]
5	DIVAKAR . S	II - B.Sc Chemistry	[Signature]
6	KAVIYARASUN S	II - B.Sc. chemistry	[Signature]
7	VASANTKUMAR . A	II . B.Sc. chemistry	[Signature]
8	YEOPUSURAM . A	II . B.Sc. chemistry	[Signature]
9	Adil Ashfaq . J	II . B . English	[Signature]
10	yakondan . v	II . B.A. English	[Signature]
11	DINESHKUMAR . C	II . B.Sc biotechnology	[Signature]
12	Keerthana . V	II - B.Sc biotechnology	[Signature]
13	logashwar . M	II - B.Sc biotechnology	[Signature]
14	MU KILAN . S	II - B.Sc Biotechnology	[Signature]
15	Pooranimadexi . M	II - B.Sc Biotechnology	[Signature]
16	Poonisha	II - B.Sc. Biotechnology	[Signature]
17	Ro.hoth . v . B	II - B.Sc . Biotechnology	[Signature]
18	Surya . G	II - B.Sc . Biotechnology	[Signature]
19	Beehalan N	Ind BCA	[Signature]
20	Dhmesh Raja . S	Ind BCA	[Signature]
21	Gnanesh . S	II - BCA	[Signature]
22	Jais	II - BCA	[Signature]
	Lokesh . M	II - BCA	[Signature]

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24	Prithivi ragan . V	II - BCA	Prithivi ragan
25	Raghuvaran . P	II - BCA	Raghuvaran
26	Sasi . S	II - BCA	Sasi
27	Abhishek . R	II - BBA	Abhishek
28	Balaaranjun . L	II - BBA	Balaaranjun
29	Kabilan . S	II - BBA	Kabilan
30	RAJESH . P	II - BBA	Rajesh
31	KAMARAMY . R	II - BBA	Kamaramy
32	SURENDRAN . N	II - BBA	Surenran
33	MOHIT . R	II - BSc Microbiology	Mohit
34	RADHAKRISHNAN . S	II - BSc Microbiology	Radhakrishnan
35	SHANKUGARAJ . D	II - BSc Microbiology	Shankugaraj
36	Yuvraj . M	II - BSc Microbiology	Yuvraj
37	Anusha . M	II - BSc Physics	Anusha
38	Kokilavani . K	II - BSc Physics	Kokilavani
39	Sowmiya . M	II - BSc Physics	Sowmiya
40	Sowmya . S	II - BSc Physics	Sowmya
41			
42			
43			
44			
45			
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49			
50			

  
Course Coordinator

  
Head of the Department

  
Principal

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**DEPARTMENT OF BIOCHEMISTRY**

**VALUE ADDED COURSE**

The Department of Biochemistry was started in the year 1995 by offering UG course and expanded to offer PG and research courses such as M.Phil and Ph.D. The college has been promoted as an Autonomous institution in the year 2009 and the department offers various courses based on the local needs. Since 2016, the Department of Biochemistry offers certificate courses for the benefit of other department students. The Certificate Course offered by the Department of Biochemistry is

**☞ Biochemistry and Phenomena of Life**

- Duration of the certificate course – 30 hours/semester

**Biochemistry and Phenomena of Life**

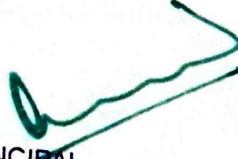
This certificate course deals with basic process of every physiological function, normal or abnormal in the living system. In addition the students to learn about basics about process of life especially to the non science students.

**Course Objectives:**

- To provide the basic knowledge about Phenomena of life
- To absolutely know how Life arise from lifeless chemicals and what makes a living being
- Explore the impact of biochemistry on health

At the end of the certificate course, a certificate will be issued to those who successfully completed the course

  
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<b>18BCCC01</b>	<b>BIOCHEMISTRY AND PHENOMENA OF LIFE</b>
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**Course Objectives:**

**The course aims**

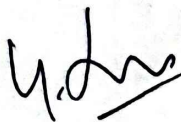
→ To provide the fundamental awareness about biochemistry and Phenomena of life

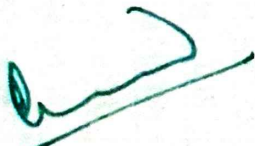
**Total Hours: 30**


UNIT	CONTENTS	HOURS OF EXECUTION
I	<b>Introduction to Biochemistry:</b> Definition, Fundamental concept of Life, Importance of Macromolecules (Carbohydrates, Lipids, Proteins and Nucleic acids) for life.	6
II	<b>Biochemistry &amp; Nutrition:</b> Balanced Diet. Nutrition and associated disorders. Vegetables, Fruits and Spices as medicine. Food adulteration.	6
III	<b>Microbial Biochemistry:</b> Basic microbial infections-wounds and oral infections-basic care. Food contaminants and food poisoning-basic treatment.	6
IV	<b>Basic Diagnosis &amp; Treatment:</b> Blood pressure monitor, blood glucose by glucometer and pregnancy test. <b>Treatment:</b> First aid management in accidents and natural disasters. Basic treatment for fire accidents.	6
V	<b>Biochemistry in Agriculture:</b> Biofertilizers-Composition, Preparation and Applications. Organic farming-Basics and importance. Plant food poisoning-elementary details.	6

**REFERENCES**

1	Laurence A. Cole, 2016. Biology of Life: Biochemistry, Physiology and Philosophy. Elsevier Science Publishers, ISBN: 9780128096857, 0128096853.
2	Paul C. Engel, 2010. Pain-Free Biochemistry: An Essential Guide for the Health Sciences. Wiley Publishers, ISBN: 9780470722961, 0470722967.

  
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Planned		Topics Covered	Executed		Signature	
Date	Hour		Date	Hour	Faculty	HOD
Unit - I						
5.08.19	4.15 5.15	Introduction to biochemistry	5.08.19	4.15 5.15	S.M.Ky	
6.08.19	4.15 5.15	Introduction, Definition, Fundamental concept of life	6.08.19	4.15 5.15	S.M.Ky	
7.08.19	4.15 5.15	Importance of macromolecules carbohydrates for life.	7.08.19	4.15 5.15	S.M.Ky	
8.08.19	4.15 5.15	Importance of lipids for life.	8.08.19	4.15 5.15	S.M.Ky	
13.08.19	4.15 5.15	Importance of proteins for life	13.08.19	4.15 5.15	S.M.Ky	
14.08.19	4.15 5.15	Importance of Nucleic acids for life	14.08.19	4.15 5.15	S.M.Ky	
Unit - II						
Biochemistry of Nutrition :						
16.08.19	4.15 5.15	Balanced diet.	16.08.19	4.15 5.15	S.M.Ky	
19.08.19	4.15 5.15	Nutrition and associated disorders.	19.08.19	4.15 5.15	S.M.Ky	
20.08.19	4.15 5.15	vegetables, Fruits and spices as medicine.	20.08.19	4.15 5.15	S.M.Ky	
21.08.19	4.15 5.15	Food adulteration.	21.08.19	4.15 5.15	S.M.Ky	
22.08.19	4.15 5.15		22.08.19	4.15 5.15	S.M.Ky	
26.08.19	4.15 5.15		26.08.19	4.15 5.15	S.M.Ky	
Unit - III						
27.08.19	4.15 5.15	Microbial Biochemistry: (Intro)	27.08.19	4.15 5.15	S.M.Ky	
29.08.19	4.15 5.15	Basic microbial infections.	29.08.19	4.15 5.15	S.M.Ky	
30.08.19	4.15 5.15	wound Infection - basic care	30.08.19	4.15 5.15	S.M.Ky	
4.09.19	4.15 5.15	Oral Infection basic care.	4.09.19	4.15 5.15	S.M.Ky	
5.09.19	4.15 5.15	Food contaminants - basic	5.09.19	4.15 5.15	S.M.Ky	
6.09.19	4.15 5.15	Treatment.	6.09.19	4.15 5.15	S.M.Ky	
Unit - IV						
Basic diagnosis & Treatment						
9.9.19	4.15 5.15	Blood pressure monitor.	9.9.19	4.15 5.15	S.M.Ky	
11.9.19	4.15 5.15	Blood glucose by glucometer.	11.9.19	4.15 5.15	S.M.Ky	
12.9.19	4.15 5.15	Pregnancy test.	12.9.19	4.15 5.15	S.M.Ky	



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**DEPARTMENT OF BIOCHEMISTRY**

**ACADEMIC YEAR: 2019-2020**

**COURSE CODE: 18BCCC01**

**COURSE NAME: Biochemistry and Phenomena of Life**

**CLASS: UG**

**MAX MARKS: 100**


S.NO	Reg. No	Name of the Student	Ass-I (10)	Ass-II (10)	Test (75)	Att %	Att (5)	Total (100)
1	18UBA003	ABISHEK. B	10	9	45	93	4	68
2	18UBA007	BALARRJUN. L	10	8	46	96	5	69
3	18UBA040	KABILAN. S	9	9	58	93	4	80
4	18UBA080	RAJESH. P	8	8	52	100	5	73
5	18UBA082	RAMASAMY. R	9	9	51	93	4	73
6	18UBA104	SURENDIRAN. N	8	8	53	96	5	74
7	18UBT015	DINESHKUMAR. C	7	9	54	90	4	74
8	18UBT030	KEERTHANA. V	8	8	59	96	5	80
9	18UBT034	LOGESHWAR. M	9	9	52	93	4	74
10	18UBT042	MUKILAN. S	9	8	54	96	5	76
11	18UBT052	POORNIMA DEVI. M	10	10	55	96	5	80
12	18UBT053	POORVISHA. J	10	10	43	96	5	68
13	18UBT060	ROHOTH. V. B	8	9	49	93	4	70
14	18UBT074	SURYA. G	8	8	51	90	4	72
15	18UCA014	BOOBALAN. N	10	9	62	86	3	84
16	18UCA025	DINESHRAJA. S	8	8	48	83	2	66
17	18UCA030	GANESH. S	9	7	64	86	3	83
18	18UCA051	KAVIN. P	10	9	52	100	5	76
19	18UCA064	LOKESH. M	8	10	42	90	4	64
20	18UCA102	PRITHIVIRAJAN. V	10	8	49	80	4	69

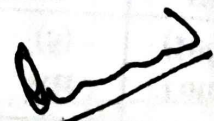
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21	18UCA108	RAGHUVARAN. P	7	9	57	93	4	77
22	18UCA134	SASI. S	9	8	40	83	2	59
23	18UCC047	HARIHARAN. M	10	7	49	86	3	69
24	18UCC081	MADHAVAN. S	8	9	58	90	4	79
25	18UCC086	MANOJKUMAR. S	9	7	50	86	3	69
26	18UCH007	BOOBALAN. M	10	9	54	83	2	75
27	18UCH013	DIVAKAR. S	7	8	53	93	4	72
28	18UCH017	KAVIYARASU. S	8	10	56	86	3	77
29	18UCH037	VASANTKUMAR. A	8	8	49	83	2	67
30	18UCH040	YOGESWARAN. A	10	9	42	86	3	64
31	18UEL002	ADIL ASHFAQUE. J	7	8	47	83	2	64
32	18UEL044	YUKENDRAN. V	10	9	61	100	5	85
33	18UMB024	MOULI. R	7	10	52	80	2	71
34	18UMB030	RAJA SHANMATHI.S	8	8	54	83	2	72
35	18UMB039	SHANMUGARAJ. D	10	9	53	86	3	75
36	18UMB044	YUVANSANKAR. M	9	9	51	86	3	72
37	18UPH005	ANUROOPA. M	10	10	52	86	3	75
38	18UPH034	KOKILAVANI. K	8	8	54	86	3	73
39	18UPH066	SOWMIYA. M	10	9	53	86	3	75
40	18UPH037	SOWMIYA. S	8	10	57	90	4	79

  
Coordinator  
(Dr. S. Vadivukkarasi)

  
Head of the Department  
(Dr. G. Saravanan)

  
Principal  
(Dr. V. Radhakrishnan)

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**DEPARTMENT OF BIOCHEMISTRY**

**Subject Name: Biochemistry and Phenomena of Life**

**Course Code: 18BCCC01**

**Summary of the Course**

**Objectives of the Course**

This certificate course deals with basic process of every physiological function, normal or abnormal in the living system. In addition the students to learn about basics about process of life especially to the non science students.

- To provide the basic knowledge about Phenomena of life
- To absolutely know how Life arise from lifeless chemicals and what makes a living being
- Explore the impact of biochemistry on health

**No. of Participants: 40**

**Coordinator: Dr. S. Vadivukkarasi**

Assistant Professor

Department of Biochemistry

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

**Year: 2019-2020**

**Branch of the Students: II UG students from the following departments**

- Biotechnology
- Business Administration
- Chemistry
- Commerce
- Computer Applications
- Electronics & Communications
- Microbiology
- Physics

  
**Course Coordinator**

  
**Head of the Department**

  
**Principal**

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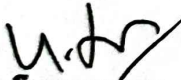
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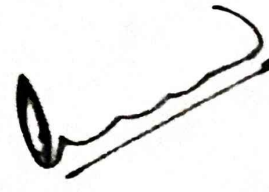


**Certificate Course**

This is to certify that FIBISHEK . B of II - BBA has completed a Certificate Course in **"Biochemistry and Phenomena of Life"** during the academic year 2019 – 2020 conducted by the Department of Biochemistry, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
**Dr. G. Saravanan**  
Head of the Department

  
**Dr. S. Vadivukkarasi**  
Course Coordinator

  
**Dr. V. Radhakrishnan**  
Principal

  
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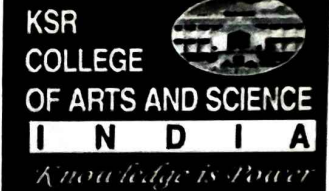
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## **Certificate Course**

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II - BBA has completed a Certificate Course  
in "**Biochemistry and Phenomena of Life**" during the academic year 2019 – 2020  
conducted by the Department of Biochemistry, **K.S. Rangasamy College of Arts and  
Science (Autonomous), Tiruchengode.**

  
**Dr. G. Saravanan**  
Head of the Department

  
**Dr. S. Vadivukkarasi**  
Course Coordinator

  
**Dr. V. Radhakrishnan**  
Principal

  
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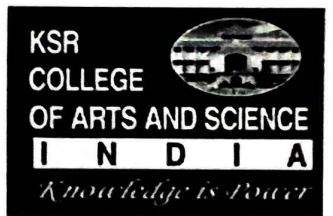


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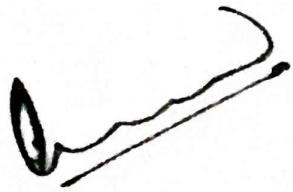


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II - BBA has completed a Certificate Course  
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Science (Autonomous), Tiruchengode.**

  
**Dr. G. Saravanan**  
Head of the Department

  
**Dr. S. Vadivukkarasi**  
Course Coordinator

  
**Dr. V. Radhakrishnan**  
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# **K.S. Rangasamy College of Arts and Science (Autonomous)**

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## **Certificate Course**

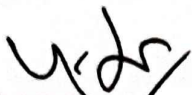
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Head of the Department



  
**Dr. S. Vadivukkarasi**  
Course Coordinator

  
**Dr. V. Radhakrishnan**  
Principal

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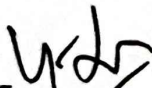
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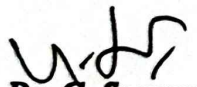
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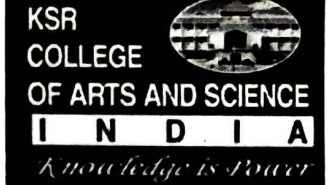
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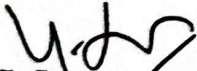
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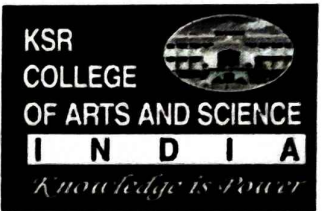
  
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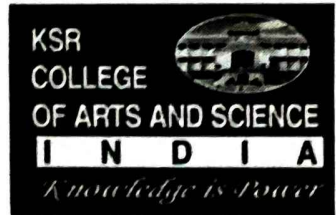
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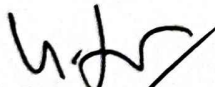
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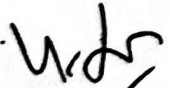
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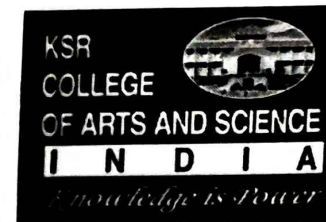
  
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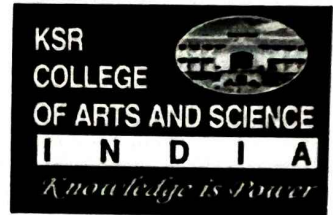
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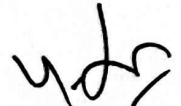
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II - B.Sc BIOTECHNOLOGY has completed a Certificate Course  
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Course Coordinator

  
**Dr. V. Radhakrishnan**  
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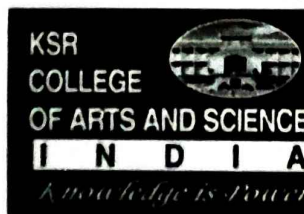
  
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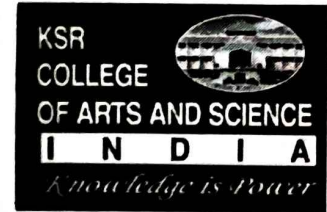
  
**Dr. V. Radhakrishnan**  
Principal

  
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II - BCH has completed a Certificate Course  
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Handwritten signature of Dr. G. Saravanan in black ink.

**Dr. G. Saravanan**  
Head of the Department

Handwritten signature of Dr. S. Vadivukkarasi in black ink.

**Dr. S. Vadivukkarasi**  
Course Coordinator

Handwritten signature of Dr. V. Radhakrishnan in black ink.

**Dr. V. Radhakrishnan**  
Principal

Handwritten signature of the Principal in green ink.

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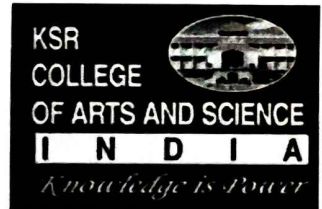
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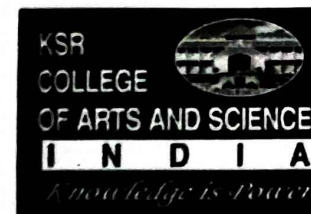
  
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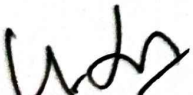
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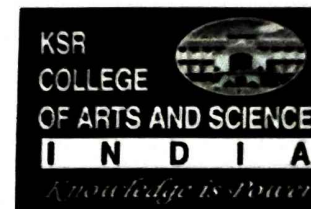


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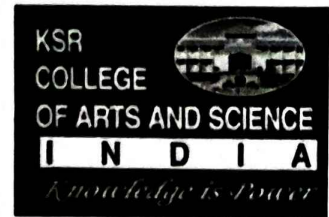
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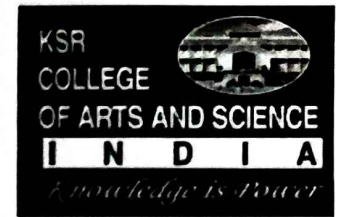
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**Dr. G. Saravanan**  
Head of the Department

Handwritten signature of Dr. S. Vadivukkarasi in black ink.

**Dr. S. Vadivukkarasi**  
Course Coordinator

Handwritten signature of Dr. V. Radhakrishnan in black ink.

**Dr. V. Radhakrishnan**  
Principal

Handwritten signature of the Principal in blue ink.

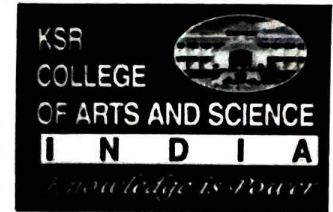
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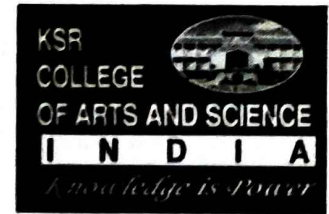
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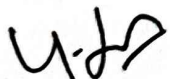
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**Dr. G. Saravanan**  
Head of the Department

  
**Dr. S. Vadivukkarasi**  
Course Coordinator

  
**Dr. V. Radhakrishnan**  
Principal

  
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**Certificate Course**


This is to certify that MADHAVAN . S of

II - B. Com (CA) has completed a Certificate Course  
in "**Biochemistry and Phenomena of Life**" during the academic year 2019 – 2020  
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II - B.Com (CA) has completed a Certificate Course  
in "**Biochemistry and Phenomena of Life**" during the academic year 2019 – 2020  
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## **Certificate Course**

This is to certify that BOOBALAN M of

II - B.Sc CHEMISTRY has completed a Certificate Course  
in **"Biochemistry and Phenomena of Life"** during the academic year 2019 – 2020  
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This is to certify that           DIVAKAR .S           of  
          II - B.Sc CHEMISTRY           has completed a Certificate Course  
in "**Biochemistry and Phenomena of Life**" during the academic year 2019 - 2020  
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**Dr. S. Vadivukkarasi**  
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**Dr. V. Radhakrishnan**  
Principal

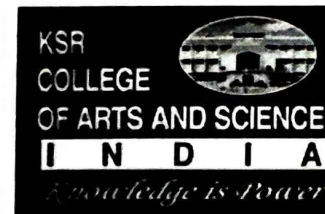
  
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II - B.Sc CHEMISTRY has completed a Certificate Course  
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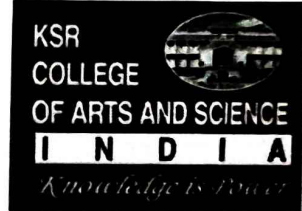
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This is to certify that VASANTKUMAR.A of  
II - B.Sc CHEMISTRY has completed a Certificate Course  
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Course Coordinator

**Dr. V. Radhakrishnan**  
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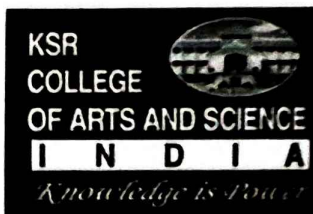
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This is to certify that YOGESWARAN . H of  
II - B.Sc CHEMISTRY has completed a Certificate Course  
in "**Biochemistry and Phenomena of Life**" during the academic year 2019 - 2020  
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This is to certify that ADIL ASHFAQUE . J of  
II - BA ENGLISH has completed a Certificate Course  
in "**Biochemistry and Phenomena of Life**" during the academic year 2019 – 2020  
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**Certificate Course**

This is to certify that YUKENDRAN . V of

II - B A ENGLISH has completed a Certificate Course

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**Certificate Course**

This is to certify that MOULI . R of  
II - B.Sc MICROBIOLOGY has completed a Certificate Course  
in "**Biochemistry and Phenomena of Life**" during the academic year 2019 – 2020  
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Handwritten signature of Dr. G. Saravanan in black ink.

**Dr. G. Saravanan**  
Head of the Department

Handwritten signature of Dr. S. Vadivukkarasi in black ink.

**Dr. S. Vadivukkarasi**  
Course Coordinator

Handwritten signature of Dr. V. Radhakrishnan in black ink.

**Dr. V. Radhakrishnan**  
Principal

Handwritten signature of the Principal in green ink.

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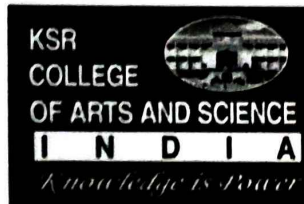
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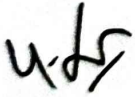
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This is to certify that RAJA SHANMATHI.S of  
II - B.Sc MICROBIOLOGY has completed a Certificate Course  
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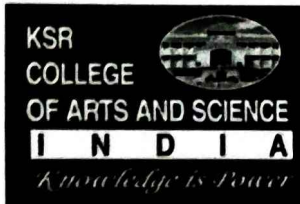


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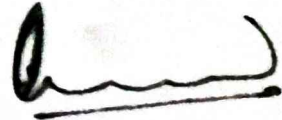


**Certificate Course**

This is to certify that SHANMUGARAJ .D of  
II - B.Sc MICROBIOLOGY has completed a Certificate Course  
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**Dr. S. Vadivukkarasi**  
Course Coordinator

  
**Dr. V. Radhakrishnan**  
Principal

  
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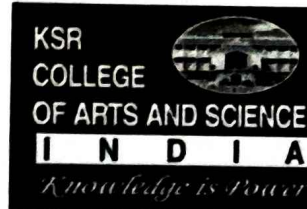
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## **Certificate Course**

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II - B.Sc PHYSICS has completed a Certificate Course  
in "**Biochemistry and Phenomena of Life**" during the academic year 2019 – 2020  
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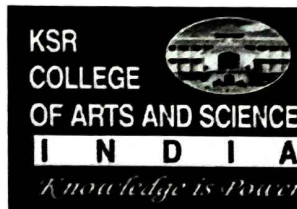
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This is to certify that YUVANSHANKAR.M of  
II - B.Sc MICROBIOLOGY has completed a Certificate Course  
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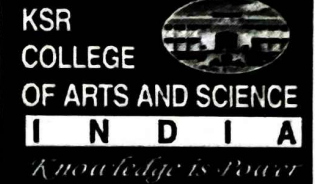
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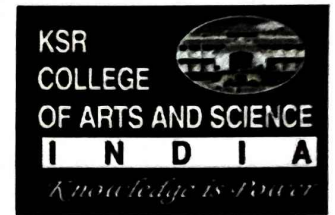
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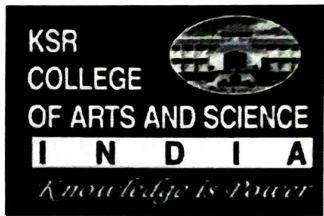
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