

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

Department of Biotechnology

CIRCULAR

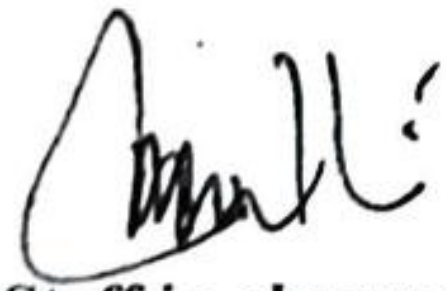
Date: 25.08.2016

From  
The Head  
Department of Biotechnology

To  
All HOD's  
Students of all departments

Our department has planned to conduct a certificate course on "Basics of Biotechnology" in this semester. Total course starts from 1<sup>st</sup> August and ends by September. 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 to 5.15pm) at the end of this course certificate will be issued. Students are advised to meet the following staff for registration.

Mr.M.Aarthi  
Course coordinator  
Department of biotechnology  
KSRCAS.



Staff in-charge signature



Head of the department



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

18BTCC02	<b>UNDERSTANDING IMMUNITY &amp; VACCINATION</b>	<b>SEMESTER - EVEN</b>
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**Course Objectives:**


The Course aims

- To study the basic concepts immunity and vaccination.


		Total Hours: 30
UNIT	CONTENTS	Hrs of execution
I	Historical Prospective of Immunology, Early Theories of Immunology, Immunity and its types.	6
II	Hematopoiesis, cells of immune system. Primary and secondary lymphoid organ, Antigen, Antibody.	6
III	Humoral immunity and cell mediated immunity, Primary and secondary immune response. Complement pathway. Cytokines.	6
IV	Vaccine and Vaccination-Types of vaccine- Live, killed vaccine, subunit vaccine, DNA vaccine, recombinant vaccine. Vaccination schedule in India.	6
V	Immunological Techniques- Agglutination – Blood grouping precipitation, ELISA, Western Blotting.	6

**Reference Books**

1	<i>Kuby Richard. A. Goldsby, Thomas. J. Kint and Barbara. A. Osborne. 2000. Immunology [Fourth Edition]. W.H. Freeman and Company, New York.</i>
2	<i>Peter J. Delves, Seamus J. Martin, Dennis R. Burton and Ivan M. Roitt. 2006. Roitt's Essential Immunology. [Eleventh Edition]. Blackwell Publication.</i>
3	<i>Tristram G. Parslow, Daniel P. Stites, Abba I. Terr and John B. Imboden. 2001. Medical Immunology. [Tenth Edition]. Tata Mc Graw Hill Publication.</i>
4	<i>Ian Tizard, K. 1995. Immunology: An Introduction. [Fourth Edition] Saunders College Publication.</i>
5	<i>Kalus D. Elgert, 2009. Immunology - Understanding the Immune System. [Second Edition]. Wiley-Blackwell Publication.</i>

  
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 Namakkal-Dt. Tamil Nadu, INDIA



  
 Mr. M. PRASAD, M.Sc.  
 Controller of Examinations  
 K.S. Rangasamy College of Arts & Science (Autonomous)  
 Tiruchengode - 637 215, Tamil Nadu, India

### Work Plan Schedule

Staff Name: AARTHI M

Dept: Bio-Technology

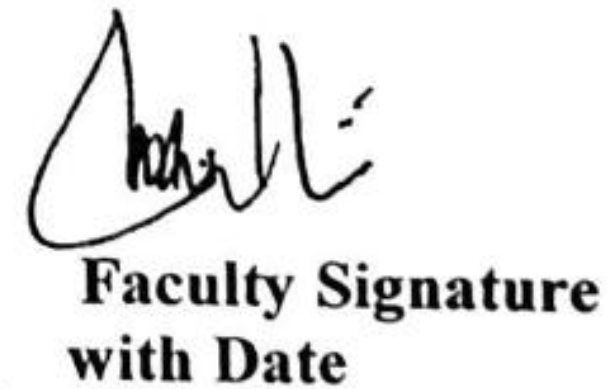
Class : B.Sc & M.Sc


Paper: Value added course : Basics of Biotechnology

Period : August- 2016 to September – 2016

S.No	Unit	Topic	No. Of Hours
1	I	Biotechnology – Milestones in Biotechnology	2
2	I	Old Biotechnology	1
3	I	New Biotechnology	1
4	I	Scientist in Contribution in Biotechnology	2
5	II	DNAas Genetic Material	2
6	II	Central Dogma	2
7	II	RNA – Protein	2
8	III	Genetic Engineering	2
9	III	Cloning	2
10	III	Gene Cloning and organism Cloning with Example	2
11	IV	Biotechnology in Food and Agriculture Sector	2
12	IV	Genetically Modified Crops – One Example	2
13	IV	Food – One Example	2
14	V	Biotechnology in Health Sectors and Forensic Department	2
15	V	Pharma Industry and Drug Manufacturing – Vaccine	2
16	V	Forensic Department – DNA Finger Printing Paternity and Maternity Test	2
<b>Total No of Hours:</b>			<b>30</b>

  
HOD Approval  
with Date

  
Faculty Signature  
with Date

  
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Namakkal-DU, Tamil Nadu, INDIA

**K.S.RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
**TIRUCHENGODE-637 215**


**DEPARTMENT OF BIOTECHNOLOGY**

Subject name: Basics of Biotechnology  
 Academic year 2016-2017

Course code: 15BTCC01

S.NO	REG NO	DEPARTMENT	NAME	SIGN
1.	15UEN022	English	Divyapriya.R	R. Divyapriya
2.	15UEN027	English	Manickam.M	Manickam
3.	15UEN032	English	Mohanraj.K	Mohanraj.K
4.	15UTA019	Tamil	Krishnan.V	Krishnan
5.	15UTA027	Tamil	Praveen.N	Praveen
6.	15UBC007	Biochemistry	Dharmaraj.E	Dharmaraj
7.	15UBC019	Biochemistry	Logesh.E	E. Logesh
8.	15UBC026	Biochemistry	Naveenkumar.A	Naveenkumar
9.	15UBC027	Biochemistry	Poovarasam.M	Poovarasam.M
10.	15UBC029	Biochemistry	Praveenkumar.M	Praveenkumar
11.	15UCH006	Chemistry	Boobalan.S	S. Boobalan
12.	15UCH026	Chemistry	Murugan.S	Murugan
13.	15UCH049	Chemistry	Vishnu.M	Vishnu
14.	15UCS006	Computer Science	Ananthakumar.N	Ananthakumar
15.	15UCS076	Computer Science	Naveenkumar.K	Naveenkumar
16.	15UCS106	Computer Science	Simondass.K	Simondass
17.	15UCS128	Computer Science	Tamilbharathan.M	Tamilbharathan.M
18.	15UMA044	Mathematics	Gowtham.S	Gowtham
19.	15UMA068	Mathematics	Madhumitha.S	Madhumitha
20.	15UMA069	Mathematics	Madhura.S	Madhura
21.	15UMA083	Mathematics	Moushika.M	M. Moushika
22.	15UMA126	Mathematics	Santhosh.V.S	Santhosh
23.	15UMA154	Mathematics	Vigneshkumar.S	Vigneshkumar.S
24.	15UMB005	Microbiology	Bhuvaneshwari.K	Bhuvaneshwari
25.	15UMB007	Microbiology	Deepak Raj.S	Deepakraj
26.	15UMB015	Microbiology	Karthick.J	Karthick
27.	15UMB034	Microbiology	Saranya.V	V. Saranya
28.	15UMB037	Microbiology	Sridevi.S	Sridevi
29.	15UMB044	Microbiology	Tamizharasan.K	K. Tamizharasan
30.	15UPH007	Physics	Dhanasekar.M	Dhanasekar
31.	15UPH010	Physics	Ebenezersamuel.J	Ebenezersamuel
32.	15UPH013	Physics	Eswaramoorthi.U	U. Eswaramoorthi
33.	15UPH015	Physics	Gobi.M	Gobi
34.	15UCA078	BCA	Rambabu.V	Rambabu
35.	15UCA114	BCA	Vignesh.D	Vignesh

  
 Co-ORDINATOR  
 K. S. Rangasamy College of Arts & Science  
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 HOD

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

TIRUCHENGODE - 63 215

DEPARTMENT OF BIOTECHNOLOGY

Subject name: Basics of Biotechnology

Academic year 2016-2017

Course code: 15BTCC01

Month-September 2016

S.No	Reg.No	Name	1	2	5	6	7	8	9	12	13	14	15	16	19	20	21
1	15UEN022	Divyapriya.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	15UEN027	Manickam.M	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/
3	15UEN032	Mohanraj.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	15UTA019	Krishnan.V	/	/	a	/	/	/	/	/	/	/	/	/	a	/	/
5	15UTA027	Praveen.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	15UBC007	Dharmaraj.E	a	/	/	/	/	/	/	/	/	/	/	/	/	/	a
7	15UBC019	Logesh.E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	15UBC026	Naveenkumar.A	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	15UBC027	Poovarasan.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	15UBC029	Praveenkumar.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	15UCH006	Boobalan.S	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/
12	15UCH026	Murugan.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	15UCH049	Vishnu.M	a	/	/	/	/	/	/	/	/	a	/	/	/	/	/
14	15UCS006	Ananthakumar.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	15UCS076	Naveenkumar.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	15UCS106	Simondass.K	/	a	a	/	/	/	/	/	a	/	/	/	a	/	/
17	15UCS128	Tamilbharathan.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	15UMA044	Gowtham.S	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/
19	15UMA068	Madhumitha.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	15UMA069	Madhura.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	15UMA083	Moushika.M	/	/	/	a	/	/	/	/	/	/	/	/	/	/	a
22	15UMA126	Santhosh.V.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	15UMA154	Vigneshkumar.S	/	a	/	/	/	/	/	a	/	/	/	a	/	/	a
24	15UMB005	Bhuvaneshwari.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	15UMB007	Deepak Raj.S	a	/	/	/	/	/	/	/	/	/	/	a	/	/	/
26	15UMB015	Karthick.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	15UMB034	Saranya.V	a	/	/	/	/	/	a	/	/	/	/	a	/	/	a
28	15UMB037	Sridevi.S	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/
29	15UMB044	Tamizharasan.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30	15UPH007	Dhanasekar.M	/	/	/	a	/	/	/	/	/	/	/	/	/	/	a
31	15UPH010	Ebenzersamuel.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32	15UPH013	Eswaramoorthi.U	a	/	/	/	/	/	/	a	/	/	/	/	a	/	/
33	15UPH015	Gobi.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34	15UCA078	Rambabu.V	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
35	15UCA114	Vignesh.D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*(Signature)*

CO ORDINATOR

(Ms. M. Anithi)

*(Signature)*

HOD

*(Signature)*

PRINCIPAL

*(Signature)*

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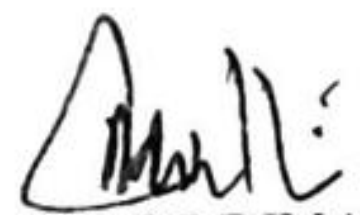
TIRUCHENGODE - 63 215

DEPARTMENT OF BIOTECHNOLOGY

Subject name: Basics of Biotechnology  
Academic year 2016-2017

Course code: 15BTCC01  
Month-October 2016

S.No	Reg.No	Name	3	4	5	6	7	13	14	15	17	19	22	24	25	27	28
1	15UEN022	Divyapriya.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	15UEN027	Manickam.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	15UEN032	Mohanraj.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	15UTA019	Krishnan.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	15UTA027	Praveen.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	15UBC007	Dharmaraj.E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	15UBC019	Logesh.E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	15UBC026	Naveenkumar.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	15UBC027	Poovarasam.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	15UBC029	Praveenkumar.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	15UCH006	Boobalan.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	15UCH026	Murugan.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	15UCH049	Vishnu.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	15UCS006	Ananthakumar.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	15UCS076	Naveenkumar.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	15UCS106	Simondass.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	15UCS128	Tamilbharathan.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	15UMA044	Gowtham.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	15UMA068	Madhumitha.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	15UMA069	Madhura.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	15UMA083	Moushika.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	15UMA126	Santhosh.V.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	15UMA154	Vigneshkumar.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	15UMB005	Bhuvaneshwari.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	15UMB007	Deepak Raj.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	15UMB015	Karthick.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	15UMB034	Saranya.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28	15UMB037	Sridevi.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29	15UMB044	Tamizharasan.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30	15UPH007	Dhanasekar.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31	15UPH010	Ebenzersamuel.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32	15UPH013	Eswaramoorthi.U	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33	15UPH015	Gobi.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34	15UCA078	Rambabu.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35	15UCA114	Vignesh.D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

  
CO ORDINATOR  
(Mrs. M. Anithi)

  
HOD

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TIRUCHENGODE - 637 215

DEPARTMENT OF BIOTECHNOLOGY

Subject name: Basics of Biotechnology

Course code: 15BTCC01

Academic year : 2016-2017

S no	Reg no	Name	Assn 1 (10)	Assn 2 (10)	Test (75)	Att %	Att (5)	Total (100)
1	15UEN022	Divyapriya.R	8	8	52	100	5	73
2	15UEN027	Manickam.M	7	8	53	96	5	73
3	15UEN032	Mohanraj.K	7	8	55	100	5	75
4	15UTA019	Krishnan.V	9	8	45	93	4	66
5	15UTA027	Praveen.N	8	7	43	100	5	63
6	15UBC007	Dharmaraj.E	8	9	40	93	4	61
7	15UBC019	Logesh.E	7	8	50	100	5	70
8	15UBC026	Naveenkumar.A	7	8	55	86	3	73
9	15UBC027	Poovarasam.M	8	8	62	100	5	83
10	15UBC029	Praveenkumar.M	8	8	55	100	5	76
11	15UCH006	Boobalan.S	7	8	55	96	5	75
12	15UCH026	Murugan.S	9	7	60	100	5	81
13	15UCH049	Vishnu.M	8	9	53	93	4	74
14	15UCS006	Ananthakumar.N	8	7	60	100	5	80
15	15UCS076	Naveenkumar.K	9	7	52	100	5	73
16	15UCS106	Simondass.K	8	7	65	86	3	83
17	15UCS128	Tamilbharathan.M	8	8	65	100	5	86
18	15UMA044	Gowtham.S	7	8	48	96	5	68
19	15UMA068	Madhumitha.S	8	7	65	100	5	85
20	15UMA069	Madhura.S	8	8	68	100	5	89
21	15UMA083	Moushika.M	7	8	55	93	4	74
22	15UMA126	Santhosh.V.S	8	8	60	100	5	81
23	15UMA154	Vigneshkumar.S	8	9	60	86	3	80
24	15UMB005	Bhuvaneshwari.K	8	6	63	100	5	82
25	15UMB007	Deepak Raj.S	8	6	66	93	4	84
26	15UMB015	Karthick.J	7	8	60	100	5	80
27	15UMB034	Saranya.V	8	8	68	86	3	87
28	15UMB037	Sridevi.S	8	8	60	96	5	81
29	15UMB044	Tamizharasan.K	8	6	60	100	5	79
30	15UPH007	Dhanasekar.M	8	8	55	93	4	75
31	15UPH010	Ebenezersamuel.J	7	6	55	100	5	73
32	15UPH013	Eswaramoorthi.U	8	7	58	86	3	76
33	15UPH015	Gobi.M	8	9	47	100	5	69
34	15UCA078	Rambabu.V	9	8	55	93	4	76
35	15UCA114	Vignesh.D	8	8	40	90	4	60

Subject incharge

Mr.M.Aarthi

HOD

Dr.M.PrasannaRajeshkumar

Principal

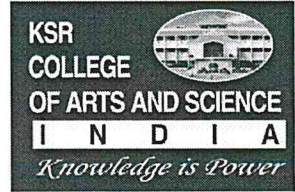
Dr.V.Radhakrishnan

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

**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 Dist, Tamil Nadu, India



## DEPARTMENT OF BIOTECHNOLOGY

### *Certificate Course*

*This is to certify that **Divyapriya.R (15UEN022)** of **English** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

**Mr.M.Aarthi**  
Course Coordinator

**Dr.V.Radhakrishnan**  
Principal

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KSR Kalvi Nagar; Tiruchengode - 637 215; Namakkal Dist, Tamil Nadu, India



**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Manickam.M (15UEN027) of English has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarathi***  
*Course Coordinator*

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

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Mohanraj.K (15UEN032) of English has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

A handwritten signature in black ink, appearing to read 'Prasanna', with a long horizontal line extending to the right.

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Aarathi', with a long horizontal line extending to the right.

***Mr.M.Aarathi***  
*Course Coordinator*

A handwritten signature in black ink, appearing to read 'Radhakrishnan', with a long horizontal line extending to the right.

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

A handwritten signature in blue ink, appearing to read 'Radhakrishnan', with a long horizontal line extending to the right.

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## DEPARTMENT OF BIOTECHNOLOGY

### *Certificate Course*

*This is to certify that **Krishnan.V** (15UTA019) of **Tamil** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

**Mr.M.Aarthi**  
Course Coordinator

**Dr.V.Radhakrishnan**  
Principal

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Praveen.N (15UTA027) of Tamil has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Dharmaraj.E (15UBC007) of Biochemistry has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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

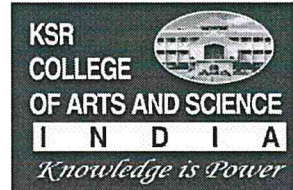
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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Logesh.E (15UBC019) of Biochemistry has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Naveenkumar.A (15UBC026 ) of Biochemistry has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarathi***  
*Course Coordinator*

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

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Poovarasan.M (15UBC027) of Biochemistry has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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

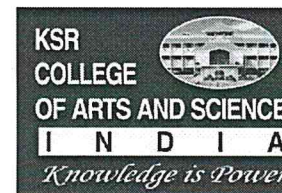
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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Praveenkumar.M (15UBC029) of Biochemistry has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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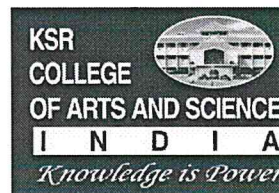
***Dr.V.Radhakrishnan***  
*Principal*

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that **Boobalan.S (15UCH006)** of **Chemistry** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

**Mr.M.Aarathi**  
Course Coordinator

**Dr.V.Radhakrishnan**  
Principal

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Murugan.S (15UCH026) of Chemistry has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

A handwritten signature in black ink, appearing to read 'Dr. M. Prasanna Rajeshkumar', written over a horizontal line.

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Mr. M. Aarthi', written over a horizontal line.

***Mr.M.Aarthi***  
*Course Coordinator*

A handwritten signature in black ink, appearing to read 'Dr. V. Radhakrishnan', written over a horizontal line.

A handwritten signature in black ink, appearing to read 'Dr. V. Radhakrishnan', written over a horizontal line.

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

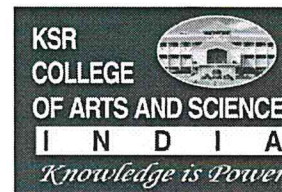
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***Certificate Course***

*This is to certify that Vishnu.M (15UCH049) of Chemistry has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

A handwritten signature in black ink, appearing to read 'Prasanna', written over a horizontal line.

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Aarthi', written over a horizontal line.

***Mr.M.Aarthi***  
*Course Coordinator*

A handwritten signature in black ink, appearing to read 'Radhakrishnan', written over a horizontal line.

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*Principal*

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***Certificate Course***

*This is to certify that Ananthakumar.N (15UCS006) of Computer science has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

A handwritten signature in black ink, appearing to read 'Prasanna', written over a horizontal line.

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Aarthi', written over a horizontal line.

***Mr.M.Aarthi***  
*Course Coordinator*

A handwritten signature in black ink, appearing to read 'Radhakrishnan', written over a horizontal line.

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

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Naveenkumar.K (15UCS076) of Computer science has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

A handwritten signature in black ink, appearing to read 'Dr. M. Prasanna Rajeshkumar'.

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

A handwritten signature in black ink, appearing to read 'Mr. M. Aarathi'.

**Mr.M.Aarathi**  
Course Coordinator

A handwritten signature in black ink, appearing to read 'Dr. V. Radhakrishnan'.

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**Dr.V.Radhakrishnan**  
Principal

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that **Simondass.K (15UCS106)** of **Computer science** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

A handwritten signature in black ink, appearing to read 'Prasanna', with a long horizontal line extending to the right.

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

A handwritten signature in black ink, appearing to read 'Aarthi', with a long horizontal line extending to the right.

**Mr.M.Aarthi**  
Course Coordinator

A handwritten signature in blue ink, appearing to read 'Radhakrishnan', with a long horizontal line extending to the right.

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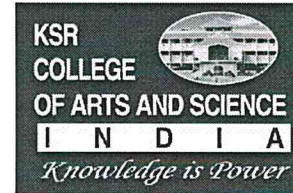
A handwritten signature in black ink, appearing to read 'Radhakrishnan', with a long horizontal line extending to the right.

**Dr.V.Radhakrishnan**  
Principal

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that **Tamilbharathan.M (15UCS128)** of **Computer science** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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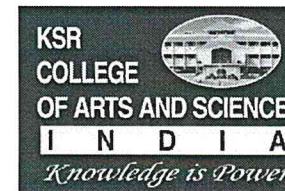
***Dr.V.Radhakrishnan***  
*Principal*



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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that **Gowtham.S (15UMA044)** of **Mathematics** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

A handwritten signature in black ink, appearing to read 'Prasanna', with a long horizontal line extending to the right.

**Dr.M.Prasanna Rajeshkumar**  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Aarthi', with a long horizontal line extending to the right.

**Mr.M.Aarthi**  
*Course Coordinator*

A handwritten signature in black ink, appearing to read 'Radhakrishnan', with a long horizontal line extending to the right.

A handwritten signature in black ink, appearing to read 'Radhakrishnan', with a long horizontal line extending to the right.

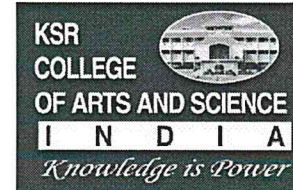
**Dr.V.Radhakrishnan**  
*Principal*

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***Certificate Course***

*This is to certify that Madhumitha.S (15UMA068) of Mathematics has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

**Mr.M.Aarthi**  
Course Coordinator

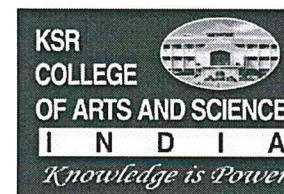
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**Dr.V.Radhakrishnan**  
Principal

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***Certificate Course***

*This is to certify that Madhura.S (15UMA069) of Mathematics has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

**Mr.M.Aarthi**  
Course Coordinator

**Dr.V.Radhakrishnan**  
Principal

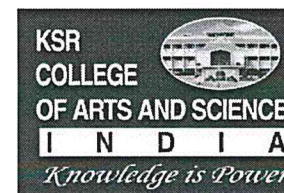
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***Certificate Course***

*This is to certify that Moushika.M (15UMA083) of Mathematics has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

A handwritten signature in black ink, appearing to read 'Prasanna'.

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Aarathi'.

***Mr.M.Aarathi***  
*Course Coordinator*

A handwritten signature in black ink, appearing to read 'Radhakrishnan'.

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

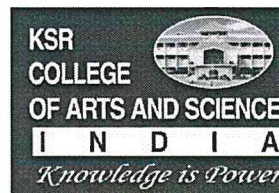
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***Certificate Course***

*This is to certify that Santhosh.V.S (15UMA126) of Mathematics has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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

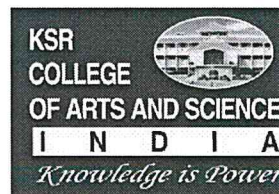
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***Certificate Course***

*This is to certify that Vigneshkumar.S (15UMA154) of Mathematics has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Dr.M.Prasanna Rajeshkumar**  
*Head of the Department*

**Mr.M.Aarthi**  
*Course Coordinator*

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**Namakkal-Dt, Tamil Nadu, IN**

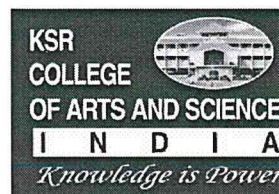
**Dr.V.Radhakrishnan**  
*Principal*

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***Certificate Course***

*This is to certify that Bhuvaneshwari.K (15UMB005) of Microbiology has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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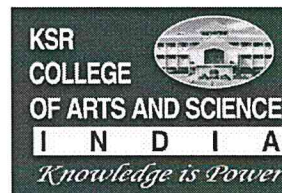
***Dr.V.Radhakrishnan***  
*Principal*

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that **Deepak Raj.S (15UMB007)** of **Microbiology** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

A handwritten signature in black ink, appearing to read 'Dr. M. Prasanna Rajeshkumar'.

**Dr.M.Prasanna Rajeshkumar**  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Mr. M. Aarthi'.

**Mr.M.Aarthi**  
*Course Coordinator*

A handwritten signature in black ink, appearing to read 'Dr. V. Radhakrishnan'.

A handwritten signature in black ink, appearing to read 'Dr. V. Radhakrishnan'.

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

A red circular stamp with a scalloped edge. Inside the circle, the text reads 'PRINCIPAL' at the top, followed by 'K. S. Rangasamy College of Arts & Science (Autonomous)', 'TIRUCHENGODE - 637 215', and 'Namakkal-Dt. Tamil Nadu. INDIA' at the bottom.

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### ***Certificate Course***

*This is to certify that **Karthick.J (15UMB015)** of **Microbiology** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

**Mr.M.Aarathi**  
Course Coordinator

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**Dr.V.Radhakrishnan**  
Principal

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***Certificate Course***

*This is to certify that Saranya.V (15UMB034) of Microbiology has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

**Dr.M.Prasanna Rajeshkumar**  
*Head of the Department*

**Mr.M.Aarthi**  
*Course Coordinator*

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**Dr.V.Radhakrishnan**  
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***Certificate Course***

*This is to certify that Sridevi.S (15UMB037) of Microbiology has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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

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***Certificate Course***

*This is to certify that Tamizharasan.K (15UMB044) of Microbiology has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

A handwritten signature in black ink, appearing to read 'Dr. M. Prasanna Rajeshkumar'.

**Dr.M.Prasanna Rajeshkumar**  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Mr. M. Aarthi'.

**Mr.M.Aarthi**  
*Course Coordinator*

A handwritten signature in blue ink, appearing to read 'Dr. V. Radhakrishnan'.

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A handwritten signature in black ink, appearing to read 'Dr. V. Radhakrishnan'.

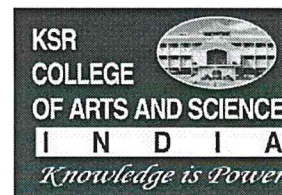
**Dr.V.Radhakrishnan**  
*Principal*

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***Certificate Course***

*This is to certify that **Dhanasekar.M (15UPH007)** of **Phycics** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Dr.M.Prasanna Rajeshkumar**  
*Head of the Department*

**Mr.M.Aarthi**  
*Course Coordinator*

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*Principal*

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***Certificate Course***

*This is to certify that **Ebenzersamuel.J (15UPH010)** of **Physics** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

**Mr.M.Aarathi**  
Course Coordinator

**Dr.V.Radhakrishnan**  
Principal

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### *Certificate Course*

*This is to certify that Eswaramoorthi.U (15UPH013) of Physics has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

A handwritten signature in black ink, appearing to read 'Prasanna', with a long horizontal line extending to the right.

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

A handwritten signature in black ink, appearing to read 'Aarathi', with a long horizontal line extending to the right.

**Mr.M.Aarathi**  
Course Coordinator

A handwritten signature in blue ink, appearing to read 'Radhakrishnan', with a long horizontal line extending to the right.

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A handwritten signature in black ink, appearing to read 'Radhakrishnan', with a long horizontal line extending to the right.

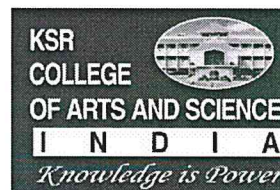
**Dr.V.Radhakrishnan**  
Principal

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***Certificate Course***

*This is to certify that Gobi.M (15UPH015) of Physics has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

***Mr.M.Aarthi***  
*Course Coordinator*

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

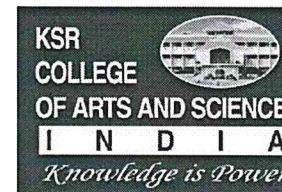
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***Certificate Course***

*This is to certify that **Rambabu.V (15UCA078)** of **Bachelor of Computer Applications** has completed a Certificate in **Basics of Biotechnology** during the academic year 2016 - 2017 conducted by the Department of Biotechnology, **K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Dr.M.Prasanna Rajeshkumar**  
Head of the Department

**Mr.M.Aarthi**  
Course Coordinator

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**Dr.V.Radhakrishnan**  
Principal

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**DEPARTMENT OF BIOTECHNOLOGY**

***Certificate Course***

*This is to certify that Vignesh.D (15UCA114) of Bachelor of Computer Applications has completed a Certificate in Basics of Biotechnology during the academic year 2016 - 2017 conducted by the Department of Biotechnology, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

A handwritten signature in black ink, appearing to read 'Dr. M. Prasanna Rajeshkumar'.

***Dr.M.Prasanna Rajeshkumar***  
*Head of the Department*

A handwritten signature in black ink, appearing to read 'Mr. M. Aarthi'.

***Mr.M.Aarthi***  
*Course Coordinator*

A handwritten signature in black ink, appearing to read 'Dr. V. Radhakrishnan'.

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