



**K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE**  
(Autonomous)

K.S.R Kalvi Nagar, Tiruchengode – 637 215  
Namakkal Dt, Tamil Nadu, India

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**Department of Physics**

**VALUE ADDED COURSE: PHYSICS IN EVERYDAY LIFE**

**Academic Year: 2016 - 2017**

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**K.S.RANGASAMY COLLEGE OF ARTS AND SCIENCE (Autonomous)  
TIRUCHENGODE – 637 215**

**DEPARTMENT OF PHYSICS**

**VALUE ADDED COURSE**

The Department of Physics started to offer undergraduate courses in 2003 and expanded to include postgraduate and research programmes. In 2009, the college was promoted as an autonomous institution, and the department now provides a variety of courses tailored to the requirements of the region. Since 2015, the department has offering a certificate programme for other department students in odd semester. The certificate course offered by the department is "Physics in Everyday Life (15PHCC01)".

Duration of the certificate course – 30 hours/semester.

This course is an introduction to physics and science in everyday life. It considers objects from our daily environment and focus on their principles of operation and relations to one another. The aim of the course is to provide the student with a broad understanding of the physical principles of the universe, to help them develop critical thinking and quantitative reasoning skills, to empower them to think creatively and critically about scientific problems and experiments.

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



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CoE

Department of Physics, Value Added Course (Students admitted from 2015 – 2016 onwards)

15PHCC01	PHYSICS IN EVERYDAY LIFE	SEMESTER: ODD
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Total Hours: 30

Objective:

1. To explain the operation and troubleshooting techniques of home appliances.
2. Focus on the importance of transformers in electric power transmission and distribution.

### CONTENTS

UNIT I: (6 Hours)

Electrical charge - current - potential - units - Ohm's law - electrical energy - power - watt - kWh - consumption of electrical power - resistance - capacitance - inductance and its units - measuring meter - Galvanometer, ammeter, voltmeter and multimeter.

UNIT II: (6 Hours)

Principles of transformers - constructional details - Core type, Shell type - classification of transformers - EMF equation - voltage ratio - current ratio - transformer on no load - auto transformer - applications.

UNIT III: (6 Hours)

AC and DC - single phase and three phase connections - three phase transformer - house wiring star-star, star - delta, delta - star connections - overloading - Earthing - short circuiting - fuses - cooling of transformers - protective devices and accessories - losses in transformer.

UNIT IV: (6 Hours)

Electrical bulbs - fluorescent lamps - inverter - UPS - Stabilizer - principle and operations of fan - wet grinder - mixer - water heater - electric iron box - microwave oven - refrigerator.



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**UNIT V:****(6 Hours)**

Electric heating - resistance heating - induction heating - high frequency eddy current heating - Dielectric heating - resistance welding - electric arc welding - occupational hazards due to chemical reactions.

**TEXT BOOK:**

1. *Soni, P. L. Gupta, P. V. and Bhatnagar, V. S. A text book in electric power, [Seventh Edition] Dhanpat Rai sons.*
2. Taylor E. O. 1971. **Utilization of electrical energy.** [First Edition] Orient Longman Pvt. Ltd.

**REFERENCE BOOK:**

1. Gupta, J. B. 2013. **An integrated course in electrical engineering.** [Eighth Edition] S. K. Kataria & Sons.
2. Theraja, B. L. and Theraja, A. K. 2005. [Twenty Second Edition] **A Textbook of Electrical Technology.** S. Chand & Co. New Delhi.



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**DEPARTMENT OF PHYSICS**

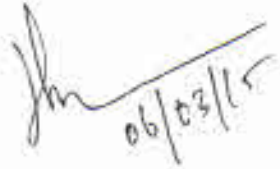

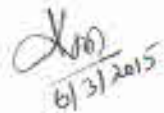

The syllabus for 2015-2016 has been thoroughly discussed and revised.

Resolved that the programme structure for B.Sc Physics is approved for adoption from the academic year 2015-2016 onwards.

The changes in the new syllabus suggested by the members are included and are given in Annexure – I

S.No	Name and Designation	Signature
1	Dr. A.S. Vytheeswaran Assistant Professor Department of Theoretical Physics University of Madras Chennai- 600 025	
2	Dr. G. Suresh Kumar Head & Assistant Professor Department of Physics K.S.Rangasamy College of Arts and Science Trichengode – 637 215	
3	Ms. F. Eamimal Assistant Professor Department of Physics K.S.Rangasamy College of Arts and Science Trichengode – 637 215	
4	Dr. S. Jayanthi Assistant Professor Department of Physics K.S.Rangasamy College of Arts and Science Trichengode – 637 215	ML
5	Ms. G. Vijayalakshmi Assistant Professor Department of Physics K.S.Rangasamy College of Arts and Science Trichengode – 637 215	

  
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6	Dr. M. Venkatesh Assistant Professor Department of Physics K.S.Rangasamy College of Arts and Science Trichengode – 637 215	 06/03/15
7	Dr. R. Nithya Assistant Professor Department of Physics K.S.Rangasamy College of Arts and Science Trichengode – 637 215	R. Nithya 6/3/15
8	Mr. T. Rajendra Kumar Head & Assistant Professor Department of Mathematics K.S.Rangasamy College of Arts and Science Trichengode – 637 215	 06/03/15
9	Mr. K. M. Prabhusankarlal Head & Assistant Professor Department of Electronics & Communication K.S.Rangasamy College of Arts & Science Tiruchengode – 637 215	 6/3/2015
10	Dr. R. Pugazendi Head & Assistant Professor Department of Computer science K.S.Rangasamy College of Arts & Science Tiruchengode – 637 215	 6/3/15
11	Dr. R. Subramanian Head & Assistant Professor Department of Chemistry K.S.Rangasamy College of Arts & Science Tiruchengode – 637 215	R. Subramanian 6/3/15

  
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**Annexure – I**

Date: 06.03.2015

The following are the suggestions given by the members of the board of studies during the meeting

1. In properties of matter, concepts about waves and oscillations can be included.
2. In heat and thermodynamics, same concepts about intensive and extensive variable can be introduced.
3. In electricity and Electromagnetism, ideas about electric fields, electric potential and Gauss law should be included.
4. The concepts about the complex analysis can be included either in allied mathematics or in Mathematical Physics.
5. In quantum mechanics, concepts about potential well may be included.
6. In Astrophysics, the concepts about HR diagram in unit – IV, some ideas about temperature measurements and few concepts about Astronomical Units (Parrsc) can be included.
7. In this revision, four SBS papers have been included as follows,
  - i. SBS I – Instrumentation – Semester – III
  - ii. SBS II – Laser Physics – Semester – IV
  - iii. SBS III – Spectrophysics – Semester – V
  - iv. SBS – IV – Material and Processing – Semester – V
8. In this revision, Biomedical Instrumentation has been introduced as an elective paper and Nanoscience and Applications has been changed as an elective paper in semester – VI.
9. In this revision, Astrophysics (with sky observation) has been introduced as a Diploma paper.
10. Also, in this revision, Physics in Everyday Life has been introduced as a Value Added Course offered by the Department in Semester – III.



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CHAIRMAN  
[Dr. G. SURESH KUMAR]







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

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K.S.R Kalvi Nagar, Tiruchengode - 637 215, Namakkal Dt

## Value Added Course Offered by the Department of Physics



### ACADEMIC YEAR 2016 - 2017

Course Name	Semester	Offering Department
Physics in Everyday Life	Odd	Physics

#### For Registration:

Ms. R. Keerthiga  
Course Coordinator  
Department of Physics (UG)  
KSRCAS

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**DEPARTMENT OF PHYSICS UG**  
**ACADEMIC YEAR: 2016 - 2017**

**STUDENT'S WILLINGNESS**

**COURSE CODE: 15PHCC01**

**Date: 21.07.2016**

**COURSE NAME: PHYSICS IN EVERYDAY LIFE**

S. No	Reg. No	Name	Signature
1	15UEN005	M. K. BHARATHKUMAR	K. Bharath Kumar
2	15UEN025	A. KRISHNAKUMAR	A. Krishnakumar
3	15UEN030	P. MOHANASEDUPATHI	P. Mohanasedupathi
4	15UEN052	K. K. VINOTH	K. K. Vinoth
5	15UBC001	K. S. ABISHEK	K. S. Abishek
6	15UBC018	K. KRISHNAN	K. Krishnan
7	15UBT021	N. M. S. GOKUL	N. M. S. Gokul
8	15UBT048	G. MOHANKUMAR	G. Mohankumar
9	15UBT079	N. SUBAGEETHA	N. Subageetha
10	15UBT088	M. TAMILARASAN	M. Tamilarasan
11	15UBT094	M. VISHNUVARTHAN	M. Vishnuvarthan
12	15UCS021	C. DHARANIDHARAN	C. Dhananidharan
13	15UCS084	A. PRAKASHRAJ	A. Prakashraj
14	15UCS124	M. SURYA	M. Surya
15	15UEL001	S. ABILASH	S. Abilash
16	15UEL004	K.S. BOOBESH	K. S. Boobesh
17	15UEL005	S.CHILAMBUSELVAN	S. Chilambuselvan
18	15UEL006	M. DEVARAJ	M. Devaraj
19	15UEL017	H.KHAJAMOHINUDEEN	H. Khajamohinudeen
20	15UEL040	T.SIVAMOORTHY	T. Sivamoorthy
21	15UEL041	J.SURYA	J. Surya
22	15UEL043	K.VIJAY	K. Vijay
23	15UMA002	P.AARTHIKA	P. Aradhika
24	15UMA032	S.GOPINATH	S. Gopinath

  
**Staff in-charge**

  
**R. Neeraj**  
 21/7/16  
**Head of the Department**

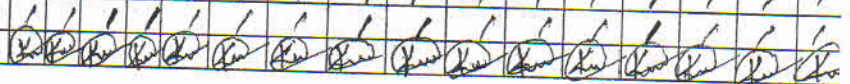
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S. No	Reg. No	Name	August																
			3	4	5	8	9	10	11	16	17	18	19	22	23	24	26	29	
1	15UEN005	M. K. BHARATHKUMAR	/	/	/	/	a	/	/	/	/	/	/	/	/	a	/	/	/
2	15UEN025	A. KRISHNAKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	15UEN030	P. MOHANASEDUPATHI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	15UEN052	K. K. VINOTH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	15UBC001	K. S. ABISHEK	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	15UBC018	K. KRISHNAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	15UBT021	N. M. S. GOKUL	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	15UBT048	G. MOHANKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	15UBT079	N. SUBAGEETHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	15UBT088	M. TAMILARASAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	15UBT094	M. VISHNUVARTHAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	15UCS021	C. DHARANIDHARAN	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/
13	15UCS084	A. PRAKASHRAJ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	15UCS124	M. SURYA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	15UEL001	S. ABILASH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	15UEL004	K.S. BOOBESH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	15UEL005	S.CHILAMBUSELVAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	15UEL006	M. DEVARAJ	/	/	a	/	/	/	/	/	a	/	/	/	/	/	/	/	/
19	15UEL017	H.KHAJAMOHINUDEEN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	15UEL040	T.SIVAMOORTHY	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	15UEL041	J.SURYA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	15UEL043	K.VIJAY	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	15UMA002	P.AARTHIKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	15UMA032	S.GOPINATH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Signature of the Staff																			

  
Staff in-charge

  
R. Neel  
29/8/16  
Head of the Department

  
29/8/16  
Principal

  
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**DEPARTMENT OF PHYSICS UG**  
**ACADEMIC YEAR: 2016 – 2017**

**COURSE CODE: 15PHCC01**

**COURSE NAME: PHYSICS IN EVERYDAY LIFE**

S. No	Reg. No	Name	September																
			1	6	7	8	9	14	15	19	20	21	22	23	26	27	29	30	
1	15UEN005	M. K. BHARATHKUMAR	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/
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5	15UBC001	K. S. ABISHEK	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	15UBC018	K. KRISHNAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	15UBT021	N. M. S. GOKUL	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	15UBT048	G. MOHANKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	15UBT079	N. SUBAGEETHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	15UBT088	M. TAMILARASAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	15UBT094	M. VISHNUVARTHAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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21	15UEL041	J.SURYA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	15UEL043	K.VIJAY	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	15UMA002	P.AARTHIKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	15UMA032	S.GOPINATH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Signature of the Staff																			

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**DEPARTMENT OF PHYSICS UG**  
**ACADEMIC YEAR: 2016 - 2017**

COURSE CODE:15PHCC01

COURSE NAME: PHYSICS IN EVERYDAY LIFE


CLASS: UG


MAX. MARK: 100

S. No	Reg. No	Name	Ass1 (10)	Ass2 (10)	Test (75)	Att %	Att (5)	Total (100)
1	15UEN005	M. K. BHARATHKUMAR	8	7	61	92	4	80
2	15UEN025	A. KRISHNAKUMAR	6	8	63	100	5	82
3	15UEN030	P. MOHANASEDUPATHI	7	9	65	100	5	91
4	15UEN052	K. K. VINOTH	8	7	67	100	5	87
5	15UBC001	K. S. ABISHEK	9	6	70	100	5	90
6	15UBC018	K. KRISHNAN	8	7	69	100	5	89
7	15UBT021	N. M. S. GOKUL	7	9	71	100	5	92
8	15UBT048	G. MOHANKUMAR	9	7	73	100	5	94
9	15UBT079	N. SUBAGEETHA	6	8	61	100	5	80
10	15UBT088	M. TAMILARASAN	8	6	63	100	5	82
11	15UBT094	M. VISHNUVARTHAN	7	9	65	100	5	86
12	15UCS021	C. DHARANIDHARAN	6	8	67	92	4	77
13	15UCS084	A. PRAKASHRAJ	8	7	69	100	5	89
14	15UCS124	M. SURYA	7	6	71	100	5	89
15	15UEL001	S. ABILASH	9	7	66	100	5	87
16	15UEL004	K.S. BOOBESH	7	8	68	100	5	88
17	15UEL005	S.CHILAMBUSELVAN	6	9	70	100	5	90
18	15UEL006	M. DEVARAJ	7	8	72	92	4	83
19	15UEL017	H.KHAJAMOHINUDEEN	8	7	63	100	5	83
20	15UEL040	T.SIVAMOORTHY	9	6	65	100	5	85
21	15UEL041	J.SURYA	6	9	67	100	5	87
22	15UEL043	K.VIJAY	7	8	69	100	5	89
23	15UMA002	P.AARTHIKA	8	7	71	100	5	91
24	15UMA032	S.GOPINATH	9	6	73	100	5	93

  
Staff in-charge

  
Head of the Department

  
Principal

  
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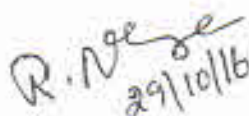
**COURSE NAME: PHYSICS IN EVERYDAY LIFE**

**Feedback**

Based on the feedback received by the course participants, after completion of this course. They learned about measurement equipment such as galvanometers, ammeters, and voltmeters in the subject "Physics in Everyday Life." Students will have a better understanding of basic physics words such as potential, power, and current after finishing the course. Students should be knowledgeable of domestic items such as light bulbs, inverters, water heaters, refrigerators, and so on. They gain an understanding of the many types of phase connections available to our homes.



**Coordinator**



**HoD**



**Principal**

Department of Physics (UG)  
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TIRUCHENGODE – 637 215  
DEPARTMENT OF PHYSICS UG**

**COURSE CODE: 15PHCC01**

**COURSE NAME: PHYSICS IN EVERYDAY LIFE**

**Summary of the course**

**Objective of the course**

Physics in Everyday Life certificate course educates the students to learn about the basic terms and principles in everyday life to the other major students.

1. To explain the operation and troubleshooting techniques of home appliances.
2. Focus on the importance of transformers in electric power transmission and distribution.

**No. of Participants: 24**

**Coordinator: Ms. R. Keerthiga**  
Course Coordinator  
Department of Physics (UG)  
KSRCAS

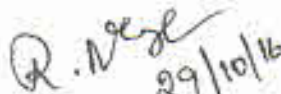
**Year: 2016 – 2017**

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

- English
- Biochemistry
- Biotechnology
- Computer Science
- Electronics
- Mathematics



**Course Coordinator**



**Head of the Department**



**Principal**

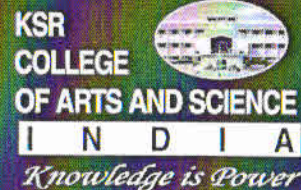


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**Value Added Course "Physics in Everyday Life"**  
**Certificate of Completion**

*This is to certify that M. K. Bharathkumar of II - BA English has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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Dr. V. Radhakrishnan  
Principal





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**Value Added Course “Physics in Everyday Life”  
Certificate of Completion**

*This is to certify that A. Krishnakumar of II - BA English has completed a Value Added Course “Physics in Everyday Life” during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that P. Mohanasedupathi of II - BA English has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

Dr. M. Venkatesh  
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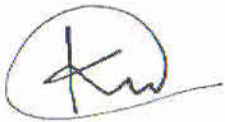
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Principal



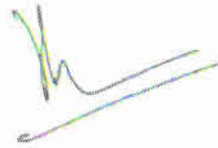
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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that **K. K. Vinoth** of **II - BA English** has completed a Value Added  
Course "**Physics in Everyday Life**" during the academic year 2016 - 2017 odd semester  
conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science**  
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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that **K. S. Abishek** of **II - B. Sc., Biochemistry** has completed a Value Added Course "**Physics in Everyday Life**" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.***

**Ms. R. Keerthiga**  
Course Coordinator

**Dr. M. Venkatesh**  
Head of the Department

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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that **K. Krishnan** of **II - B. Sc., Biochemistry** has completed a  
Value Added Course "**Physics in Everyday Life**" during the academic year 2016 - 2017 odd  
semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and  
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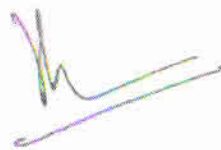
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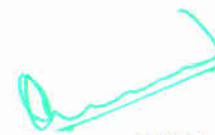
*This is to certify that N. M. S. Gokul of II - B. Sc., Biotechnology has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*



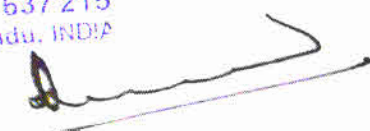
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Course Coordinator



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Head of the Department



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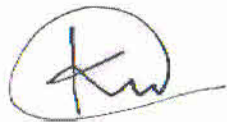


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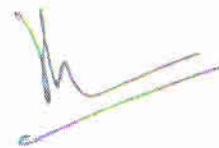


**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that G. Mohankumar of II - B. Sc., Biotechnology has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*



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Course Coordinator



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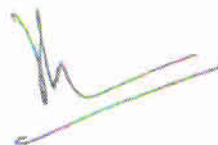
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**Value Added Course "Physics in Everyday Life"**  
**Certificate of Completion**

*This is to certify that N. Subageetha of II - B. Sc., Biotechnology has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*



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**Value Added Course "Physics in Everyday Life"**  
**Certificate of Completion**

*This is to certify that M. Tamilarasan of II - B. Sc., Biotechnology has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that M. Vshnuvarthan of II - B. Sc., Biotechnology has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

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Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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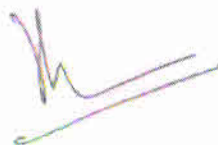


**Value Added Course "Physics in Everyday Life"  
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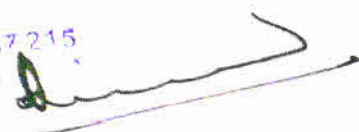
*This is to certify that C. Dharanidharan of II - B. Sc., Computer Science has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*



Ms. R. Keerthiga  
Course Coordinator



Dr. M. Venkatesh  
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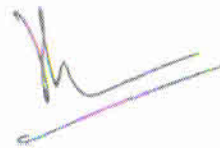
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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**


*This is to certify that A. Prakashraj of II - B. Sc., Computer Science has completed  
a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd  
semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and  
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Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that M. Surya of II - B. Sc., Computer Science has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

Dr. M. Venkatesh  
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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that S. Abilash of II - B. Sc., Electronics has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
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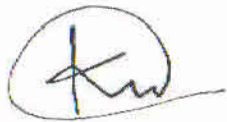
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Principal

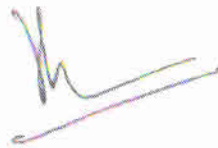


Value Added Course "Physics in Everyday Life"  
Certificate of Completion

*This is to certify that K.S. Boobesh of II - B. Sc., Electronics has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*



Ms. R. Keerthiga  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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**Value Added Course "Physics in Everyday Life"**  
**Certificate of Completion**

*This is to certify that S. Chilambuselvan of II - B. Sc., Electronics has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that M. Devaraj of II - B. Sc., Electronics has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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**Value Added Course “Physics in Everyday Life”  
Certificate of Completion**

*This is to certify that H. Khajamohinudeen of II - B. Sc., Electronics has completed a Value Added Course “Physics in Everyday Life” during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

Dr. M. Venkatesh  
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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that T. Sivamoorthy of II - B. Sc., Electronics has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

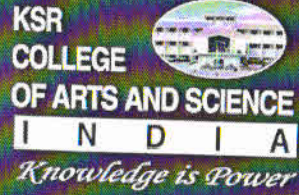
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Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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**Value Added Course "Physics in Everyday Life"  
Certificate of Completion**

*This is to certify that J. Surya of II - B. Sc., Electronics has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. R. Keerthiga  
Course Coordinator

Dr. M. Venkatesh  
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Principal

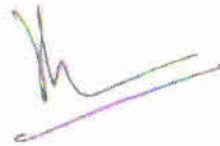


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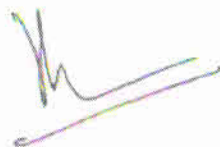


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*This is to certify that P. Aarthika of II - B. Sc., Mathematics has completed a Value Added Course "Physics in Everyday Life" during the academic year 2016 - 2017 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*



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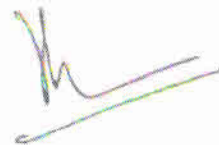
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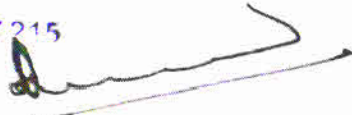
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