



**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: 2017 - 2018**

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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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Namakkal



M. S.  
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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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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**DEPARTMENT OF PHYSICS**

**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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DEPARTMENT OF PHYSICS UG**

**Circular**

**Date: 25.07.2017**

From	To
The Head Department of Physics (UG) K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637 215	All HOD's Students of all departments

Our department has planned to conduct a certificate course on "Physics in Everyday Life" in this semester. Total duration of this course is 30 hours. The course starts from 1<sup>st</sup> August 2017 and ends by September 2017. 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 p.m. to 5.15 p.m.). At the end of this course certificate will be issued.

Students are advised to meet the following staff for registration.

Ms. C. Karnan


Course Coordinator

Department of Physics (UG)

KSRCAS

  
Staff in-charge

  
Head of the Department

  
Principal

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

(NAAC Reaccredited, an ISO 9001:2008 Certified Institution,  
Affiliated to Periyar University, Salem. Included Under 2(f) & 12B of UGC Act 1956)  
K.S.R Kalvi Nagar, Tiruchengode - 637 215, Namakkal Dt



NB  
25/9/2017

## Value Added Course Offered by the Department of Physics




### ACADEMIC YEAR 2017 - 2018

Course Name	Semester	Offering Department
Physics in Everyday Life	Odd	Physics

#### For Registration:

**Mr. C. Karnan**  
**Course Coordinator**  
**Department of Physics (UG)**  
**KSRCAS**

  
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Reach us @ [www.ksrcas.edu](http://www.ksrcas.edu)



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**DEPARTMENT OF PHYSICS UG**  
**ACADEMIC YEAR: 2017 - 2018**

**STUDENT'S WILLINGNESS**

**COURSE CODE: 15PHCC01**

**Date: 28.07.2017**

**COURSE NAME: PHYSICS IN EVERYDAY LIFE**

S. No	Reg. No	Name	Signature
1	16UBC007	DHAVUTHULLA. R	
2	16UBC038	SIVAKUMAR. V	
3	16UBT007	ARUNA. N	
4	16UBT009	BHARATHKUMAR. S. R.	
5	16UBT019	GEETHA. K	
6	16UBT079	SOWNDHARYA. P	
7	16UBT089	VISHAL. T	
8	16UBT091	YAMUNA. V	
9	16UCA027	GOKUL. S	
10	16UCA094	RAJALINGAM. N	
11	16UCA115	SURENDRHIRAN. P	
12	16UCA116	SWARAN. G	
13	16UCA128	VIGNESHVARAR. A	
14	16UCS012	ARAVINDHAN. D	
15	16UCS046	GOWTHAMRAJ. J	
16	16UCS065	KARTHIKEYAN. D	
17	16UCS143	SHANKAR. M	
18	16UEL001	AKILANDESHWARI. S	
19	16UEL002	BALAJI. K	
20	16UEL003	BALAJI. M	
21	16UEL033	RANJITHKUMAR. A	
22	16UEL034	RANJITHKUMAR. A	
23	16UEL038	SANTHOSHKUMAR. B	
24	16UEL043	VIGNESH. K	
25	16UEL044	VINOTHKUMAR. I	

C. Kannan  
 28/7/17  
 Coordinator

K. S. Rangasamy College of Arts & Science  
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 Namakkal-DI, Tamil Nadu.

HoD  
 28/7/2017

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**ACADEMIC YEAR: 2017 - 2018**

**COURSE CODE: 15PHCC01**

**COURSE NAME: PHYSICS IN EVERYDAY LIFE**

S. No	Reg. No	Name	AUGUST															
			1	2	4	7	8	9	10	11	12	13	14	16	28	29	30	31
1	16UBC007	DHAVUTHULLA. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
2	16UBC038	SIVAKUMAR. V	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	
3	16UBT007	ARUNA. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
4	16UBT009	BHARATHKUMAR. S. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
5	16UBT019	GEETHA. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
6	16UBT079	SOWNDHARYA. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
7	16UBT089	VISHAL. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
8	16UBT091	YAMUNA. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
9	16UCA027	GOKUL. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	16UCA094	RAJALINGAM. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	16UCA115	SURENDRHIRAN. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	16UCA116	SWARAN. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
13	16UCA128	VIGNESHVARAR. A	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	
14	16UCS012	ARAVINDHAN. D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
15	16UCS046	GOWTHAMRAJ. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
16	16UCS065	KARTHIKEYAN. D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
17	16UCS143	SHANKAR. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
18	16UEL001	AKILANDESHWARI. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
19	16UEL002	BALAJI. K	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	
20	16UEL003	BALAJI. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
21	16UEL033	RANJITHKUMAR. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
22	16UEL034	RANJITHKUMAR. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
23	16UEL038	SANTHOSHKUMAR. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
24	16UEL043	VIGNESH. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
25	16UEL044	VINOTHKUMAR. I	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Signature of the Staff			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

*C. K. K*  
Staff in-charge

*[Signature]*  
31/08/2017  
Head of the Department

*[Signature]*  
21/8/17  
Principal

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**DEPARTMENT OF PHYSICS UG**  
**ACADEMIC YEAR: 2017 – 2018**

**COURSE CODE: 15PHCC01**

**COURSE NAME: PHYSICS IN EVERYDAY LIFE**

S. No	Reg. No	Name	SEPTEMBER															
			1	4	5	8	11	12	13	14	19	20	21	22	26	27	28	29
1	16UBC007	DHAVUTHULLA. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	16UBC038	SIVAKUMAR. V	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
3	16UBT007	ARUNA. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	16UBT009	BHARATHKUMAR. S. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	16UBT019	GEETHA. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	16UBT079	SOWNDHARYA. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	16UBT089	VISHAL. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	16UBT091	YAMUNA. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	16UCA027	GOKUL. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	16UCA094	RAJALINGAM. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	16UCA115	SURENDRHIRAN. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	16UCA116	SWARAN. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	16UCA128	VIGNESHVARAR. A	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/
14	16UCS012	ARAVINDHAN. D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	16UCS046	GOWTHAMRAJ. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	16UCS065	KARTHIKEYAN. D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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20	16UEL003	BALAJI. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	16UEL033	RANJITHKUMAR. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	16UEL034	RANJITHKUMAR. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	16UEL038	SANTHOSHKUMAR. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	16UEL043	VIGNESH. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	16UEL044	VINOTHKUMAR. I	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Signature of the Staff			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Staff in-charge

Head of the Department

Principal

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Department of Physics (UG)  
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 Science (Autonomous), Tiruchengode-15,

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**DEPARTMENT OF PHYSICS UG**  
**ACADEMIC YEAR: 2017 - 2018**

**COURSE CODE: 15PHCC01**  
**CLASS: UG**

**COURSE NAME: PHYSICS IN EVERYDAY LIFE**  
**MAX. MARK: 100**

S. No	Reg. No	Name	Ass1 (10)	Ass2 (10)	Test (75)	Att %	Att (5)	Total (100)
1	16UBC007	DHAVUTHULLA. R	7	6	71	100	5	89
2	16UBC038	SIVAKUMAR. V	8	7	61	93	4	80
3	16UBT007	ARUNA. N	6	8	63	100	5	82
4	16UBT009	BHARATHKUMAR. S. R	7	9	65	100	5	91
5	16UBT019	GEETHA. K	8	7	67	100	5	87
6	16UBT079	SOWNDHARYA. P	9	6	70	100	5	90
7	16UBT089	VISHAL. T	8	7	69	100	5	89
8	16UBT091	YAMUNA. V	7	9	71	100	5	92
9	16UCA027	GOKUL. S	9	7	73	100	5	94
10	16UCA094	RAJALINGAM. N	6	8	61	100	5	80
11	16UCA115	SURENDRHIRAN. P	8	6	63	100	5	82
12	16UCA116	SWARAN. G	7	9	65	100	5	86
13	16UCA128	VIGNESHVARAR. A	6	8	67	93	4	77
14	16UCS012	ARAVINDHAN. D	8	7	69	100	5	89
15	16UCS046	GOWTHAMRAJ. J	7	6	71	100	5	89
16	16UCS065	KARTHIKEYAN. D	9	7	66	100	5	87
17	16UCS143	SHANKAR. M	7	8	68	100	5	88
18	16UEL001	AKILANDESHWARI. S	6	9	70	100	5	90
19	16UEL002	BALAJI. K	7	8	72	93	4	83
20	16UEL003	BALAJI. M	8	7	63	100	5	83
21	16UEL033	RANJITHKUMAR. A	9	6	65	100	5	85
22	16UEL034	RANJITHKUMAR. A	6	9	67	100	5	87
23	16UEL038	SANTHOSHKUMAR. B	7	8	69	100	5	89
24	16UEL043	VIGNESH. K	8	7	71	100	5	91
25	16UEL044	VINOTHKUMAR. I	9	6	73	100	5	93

*C. Kann*

Staff in-charge

*M*  
06/10/2017

Head of the department

*A*  
6/10/17

Principal

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**DEPARTMENT OF PHYSICS UG**  
**ACADEMIC YEAR: 2017 - 2018**

**COURSE CODE: 15PHCC01**

**COURSE NAME: PHYSICS IN EVERYDAY LIFE**

**Feedback**

**Date: 06.10.2017**

After completion of this course, based on the feedback given by the participants of the course. Students comment that the subject "Physics in Everyday Life" gives them an awareness of measuring equipment such as galvanometers, ammeters, and voltmeters. We learn about the functioning concept of transformers and phase connections to use them in our homes. The course assists us in comprehending the physical world's laws and norms. We learn the fundamental physics concepts that help us manage our daily lives. It also looks at everyday objects and focuses on their working principles and relationships. The students were asked to include some more topics to gain more knowledge in Physics that uses in our everyday life.


  
**C. Kany**  
 6/10/17  
**Coordinator**

  
 06/10/2017  
**HoD**

  
 6/10/17  
**Principal**

**Dr. M. VENKATESH, M.Sc., Ph.D.**  
**Assistant Professor & Head**  
**Department of Physics**  
 K.S. Rangasamy College (Autonomous)  
 Tiruchengode - 637 215, Tamil Nadu

**PRINCIPAL**  
**K. S. Rangasamy College of Arts**  
**(Autonomous)**  
**TIRUCHENGODE - 637 215**  
**Namakkal-Dt. Tamil Nadu**

  
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**(Autonomous)**  
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**Namakkal-Dt. Tamil Nadu**



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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: Mr. C. Karan**  
Course Coordinator  
Department of Physics (UG)  
KSRCAS

**Year: 2017 – 2018**

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

- Biochemistry
- Biotechnology
- BCA
- Computer Science
- Electronics


  
Course Coordinator

  
Head of the Department

**Dr. M. VENKATESH, M.Sc., Ph.D.**  
Assistant Professor & Head  
Department of Physics  
K.S. Rangasamy College of Arts & Science (Autonomous)  
Tiruchengode - 637 215, Tamilnadu, India

  
Principal

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K. S. Rangasamy College of Arts & S.  
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TIRUCHENGODE - 637 215  
Namakkal-Dt., Tamil Nadu.

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

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

This is to certify that **Vishal. T of II – B.Sc., Biotechnology** has completed a Value Added Course in “**Physics in Everyday Life**” during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

*C. Karan*

Mr. C. Karan  
Course Coordinator

*Dr. M. Venkatesh*

Dr. M. Venkatesh  
Head of the Department

*Dr. V. Radhakrishnan*

PRINCIPAL  
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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 **Sowndharya. P of II – B.Sc., Biotechnology** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Mr. C. Karnan  
Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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

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

This is to certify that **Geetha. K of II – B.Sc., Biotechnology** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of **Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
C. Karman

Mr. C. Karman  
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 **Bharathkumar. S. R of II – B.Sc., Biotechnology** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

C. Kany

Mr. C. Karnan  
Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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Dr. V. Radhakrishnan  
Principal





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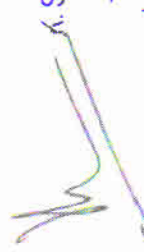
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## Value Added Course “Physics in Everyday Life” Certificate of Completion

This is to certify that **Aruna. N of II – B.Sc., Biotechnology** has completed a Value Added Course in “**Physics in Everyday Life**” during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**



Mr. C. Karnan  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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Principal





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

This is to certify that **SIVAKUMAR. V of II – B.Sc., Biochemistry** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**



Mr. C. Karnan  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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Namakkal-Dt, Tamil Nadu, INDIA

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

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

This is to certify that **Dhavuthulla. R of II – B.Sc., Biochemistry** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
C. Karnan

**Mr. C. Karnan**  
Course Coordinator



**Dr. M. Venkatesh**  
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Principal





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

This is to certify that *Yamuna. V of II – B.Sc., Biotechnology* has completed a Value Added Course in “*Physics in Everyday Life*” during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, *K.S. Rangasamy College of Arts and Science (Autonomous)*, Tiruchengode.

*C. Karan*

Mr. C. Karan  
Course Coordinator

*Dr. M. Venkatesh*

Dr. M. Venkatesh  
Head of the Department

*Dr. V. Radhakrishnan*

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K.S.R. Kalvi Nagar, Tamil Nadu.

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Principal





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

This is to certify that **Gokul. S of II – BCA** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

C. Karan

Mr. C. Karnan  
Course Coordinator

Dr. M. Venkatesh

Dr. M. Venkatesh  
Head of the Department

Dr. V. Radhakrishnan

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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 **Rajalingam. N of II – BCA** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

C. Karan

Mr. C. Karnan  
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 **Surendhiran. P of II – BCA** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
C. Karnan

Mr. C. Karnan  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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K.S.R. Kalvi Nagar, Tamil Nadu, India

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Principal





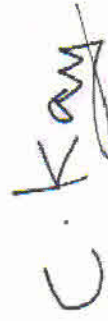
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## Value Added Course “Physics in Everyday Life” Certificate of Completion

This is to certify that **Swaran. G of II – BCA** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
C. Karnan

Mr. C. Karnan  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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Namakkal-Dt, Tamil Nadu, India.

Dr. V. Radhakrishnan  
Principal





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

This is to certify that **Vigneshvarar. A of II - BCA** has completed a Value Added Course in **"Physics in Everyday Life"** during the academic year 2017 - 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
Mr. C. Karnan  
Course Coordinator

  
Dr. M. Venkatesh  
Head of the Department

  
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Namakkal-Dt. Tamil Nadu. (INDIA)  
Dr. V. Radhakrishnan  
Principal





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

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

This is to certify that **Aravindhan. D of II – B. Sc., Computer Science** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Mr. C. Karnan  
Course Coordinator

Dr. M. Venkatesh  
Head of the Department

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(Autonomous)  
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Namakkal-Dt, Tamil Nadu, P

Dr. V. Radhakrishnan  
Principal





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

This is to certify that **Gowthamraj. J of II – B. Sc., Computer Science** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of **Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
C. Karnan

Mr. C. Karnan  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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Dr. V. Radhakrishnan  
Principal





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

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

This is to certify that **Karthikeyan. D of II – B. Sc., Computer Science** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**



Mr. C. Karman  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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Principal





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

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

This is to certify that **Shankar. M of II – B. Sc., Computer Science** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
C. Karnan

Mr. C. Karnan  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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Dr. V. Radhakrishnan  
Principal





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

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

This is to certify that **Akilandeshwari. S of II – B. Sc., Electronics** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

  
C. Karnan

Mr. C. Karnan  
Course Coordinator



Dr. M. Venkatesh  
Head of the Department



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Namakkal-Dt, Tamil Nadu, INDIA

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Principal





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

This is to certify that **Balaji. K of II – B. Sc., Electronics** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

C. Karnan

Mr. C. Karnan  
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 **Balaji. M of II – B. Sc., Electronics** has completed a Value Added Course in “**Physics in Everyday Life**” during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Mr. C. Karnan  
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 **Ranjithkumar. A of II – B. Sc., Electronics** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

*C. Karan*

Mr. C. Karan  
Course Coordinator

*[Signature]*

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Namakkal-Dt., Tamil Nadu, INDIA  
Dr. V. Radhakrishnan  
Principal

*[Signature]*





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

This is to certify that **Ranjithkumar. A of II – B. Sc., Electronics** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

*C. Karnan*

Mr. C. Karnan  
Course Coordinator

*Dr. M. Venkatesh*

Dr. M. Venkatesh  
Head of the Department

*Dr. V. Radhakrishnan*

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

This is to certify that **Santhoshkumar. B of II – B. Sc., Electronics** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 odd semester conducted by the Department of **Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

C. Karan

Mr. C. Karnan  
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 **Vignesh. K of II – B. Sc., Electronics** has completed a Value Added Course in **“Physics in Everyday Life”** during the academic year 2017 – 2018 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 **Vinothkumar. I of II - B. Sc., Electronics** has completed a Value Added Course in **"Physics in Everyday Life"** during the academic year 2017 - 2018 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

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