

K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE

(Autonomous)

K.S.R Kalvi Nagar, Tiruchengode – 637 215

Namakkal Dt, Tamil Nadu, India

Department of Physics

VALUE ADDED COURSE: ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING

Academic Year: 2018 - 2019

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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 "Electrical Appliances: Maintenance and Servicing (18PHCC01)".

Duration of the certificate course - 30 hours/semester.

The course provides an overview of physics and how it applies to everyday life. It looks at everyday objects and focuses on their principles of operation and relationships with one another. The course's goal is to give students a thorough grasp of the universe's fundamental laws, to assist them in developing critical thinking and mathematical reasoning skills, and to enable them to think critically and creatively about scientific questions and experiments. The course enhances the smooth running of all the electricity - powered items in your home while creating a safe environment that will be free from all sorts of hazards.

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

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Namakkal Dt, Tamil Nadu

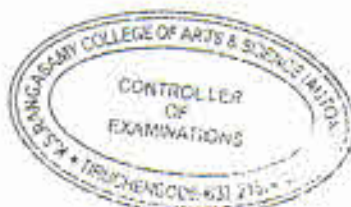


M. S.
CoE

Department of Physics, Value Added Course (Students admitted from 2018 – 2019 onwards)

18PHCC01	ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING	SEMESTER: ODD	
Course Objectives The course aims <ul style="list-style-type: none"> • Diagnose and repair home appliances and air conditioners using the latest techniques. • Highlight the importance of transformers in transmission and distribution of electric power. 			
Total Hours: 30			
UNIT	CONTENTS	Hrs.	CO
I	Fundamentals of electricity: Electrical charge - current - potential - units - Ohm's law - electrical energy - power - watt - kWh - consumption of electrical power - resistance - capacitance - inductance and its units - Meters: Galvanometer, ammeter, voltmeter, resistance and Megger, Measuring and Checking - Basics and usage of Multimeter. Checking transistors and diodes in circuit measurements.	6	CO 1
II	Electrical Connections and Wiring: Soldering Iron - Flux - lead - Zero defect soldering - Desoldering pump- soldering station - AC and DC - single phase and three phase connections. Switches - ceiling rose - lamp holders, sockets - Fuse base - Distribution box - MCB - Earthing Process - Experimental study of house wiring. Electrical Wiring - Main board preparation - Distribution - Cut - out preparation - Switch board preparation - Power factor - IEE regulations - Safety precautions.	6	CO 2
III	Heating Appliances: Electromagnetic Relays, Heater types - working principle - Heating Rod - Iron Box - Iron box with steamer - Toasters - Geysers - Microwave Ovens - Oven Disassembling and assembling procedure - Fault indicator - Testing and Troubleshooting methods.	6	CO 3
IV	Refrigeration Appliances: Fridge - Electrical connection - Compressor - coolants - Automatic defrost circuits - Testing and troubleshooting of refrigerators - Air coolers and Air conditioners - Mounting and fixing of Air Conditioners - testing and troubleshooting methods.	6	CO 4

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V	Motorized Appliances: Stabilizer and its types, Types of Motors - DC and AC motors - motor coil winding method - Fans - mixers - blenders - wet grinders - circuit connection - testing methods. Washing machine - Electrical connections - assembly - Dish washer - Electrical connection - Testing and troubleshooting methods.	6	CO 5
Text Books			
<ol style="list-style-type: none"> 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 Books			
<ol style="list-style-type: none"> 1. Partab, H. 2017. Arts and Science of utilization of electrical energy. [Second Edition] Dhanpat Rai & Sons, New Delhi. 2. Gupta, J. B. 2013. An integrated course in electrical engineering. [Eighth Edition] S. K. Kataria & Sons. 3. Theraja, B. L. and Theraja, A. K. 2005. [Twenty Second Edition] A Textbook of Electrical Technology. S. Chand & Co. New Delhi. 			

COURSE OUTCOMES (CO)

After completion of the course, the student will be able to

CO 1	Impart a basic knowledge of electrical quantities such as current, voltage, power, energy and frequency.
CO 2	Provide working knowledge for the analysis of basic DC and AC circuits used in electrical and electronic devices.
CO 3	Identify the type of heating appliances used for that particular application.
CO 4	Understand the concept of home appliances and their working.
CO 5	Realize the requirement of motorized appliances and other applications.

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No. 10, K. S. Rangasamy College of Arts & Science



M. S.


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**TIRUCHENGODE - 637215
DEPARTMENT OF PHYSICS**

BOS Meeting & Syllabus Revision Summary (B.Sc., Physics)

Based on the suggestions given by BOS members (Annexure I), COE and minutes of Department syllabus revision meeting (I, II & III), the following major changes has been made for new B.Sc., Physics syllabus (Semester I & II) which will be effective from the academic year 2018-2019.

S.No	Subject	Remarks
1.	Core I: Properties of Matter and Sound	In Unit – IV the topic 'Simple Harmonic Motion removed also added the topic of Sound. The medical application and Non-destructive testing content were added in Unit – V. There is 10% change in the paper.
2.	Core II: Thermal Physics	The paper name changed from Heat and Thermodynamics to Thermal Physics. Few topics were shifted from Unit – V to Unit – IV. There is 5% change in the paper.
3.	Core Practical I: Practical Physics I	The first experiment was newly added. The eight experiments were removed namely method of mixture. Also, update the all experiments. 15% changes present in the practical paper.
4.	Core III: Mechanics	In Unit – I Content was updated and rearranged. Few contents were added in Unit – V. There is 10% changes in this paper.
5.	Core IV: Optics	In Unit – IV the few names of the content were modified. Unit – V, the existing content was completely changed also included the photoelasticity-related topics. There is 20% changes in this paper.
6.	Core Practical II: Practical Physics II	All experiments were updated. There is less than 5% change in the paper.
7.	Allied I/III: Physics I	In this paper, some topics in Unit II are removed. In Unit IV Diffraction related topics are added. There is 5% changes in this paper.
8.	Allied Practical I/III: Physics I	Few Experiment was introduced also the details were given related to the compound Pendulum experiments. There is 10% changes in the paper.
9.	Allied II/IV: Physics II	In Unit – IV, the topic is full-wave rectifier is added. There is less than 5% change in the paper.
10.	Allied Practical II/IV: Physics II	One experiment is removed in this practical paper also added the new experiment. There is 10% changes in the paper.
11.	Value Added on Course: Electrical Appliances; Maintenance and Servicing	The new value-added course "Electrical Appliances: Maintenance and Servicing" was introduced instead of Physics in Everyday Life. There is 100% new in the syllabus


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 Chairman - BOS Physics
 Dr. G. Suresh Kumar

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

Circular

Date: 26.07.2018

<p>From</p> <p>The Head Department of Physics (UG) K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637 215</p>	<p>To</p> <p>All HOD's Students of all departments</p>
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Our department has planned to conduct a certificate course on “Electrical Appliances: Maintenance and Servicing” in this semester. Total duration of this course is 30 hours. The course starts from 1st August 2018 and ends by September 2018. 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. S. Udhayalakshmi

Course coordinator

Department of Physics (UG)

KSRCAS


 Staff in-charge
 26/7/2018


 Head of the Department
 26/07/2018


 Principal
 26/7/18

Department of Physics (UG)
 K. S. Rangasamy College of Arts and
 Science (Autonomous), Tiruchengode-15.

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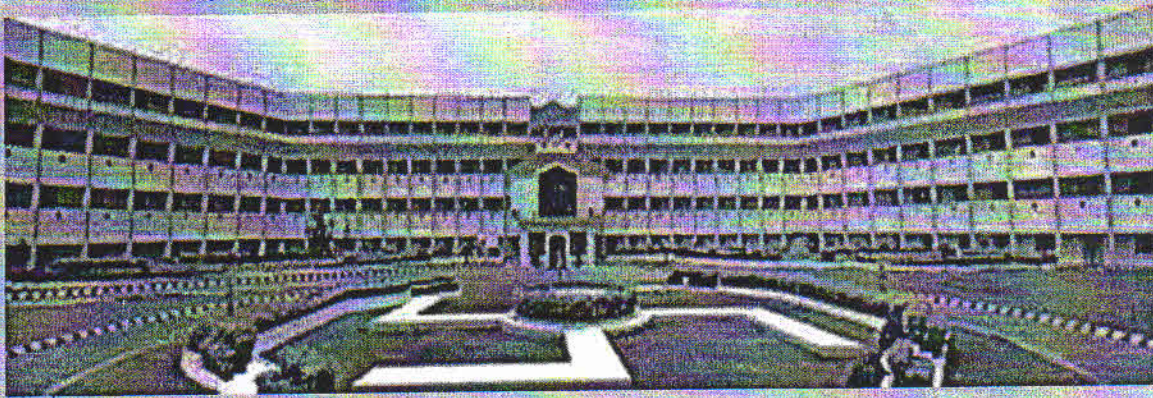
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K.S. Rangasamy *Knowledge is Power* of Arts and Science (Autonomous)

(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

Value Added Course Offered by the Department of Physics



ACADEMIC YEAR 2018 - 2019

Course Name	Semester	Offering Department
Electrical Appliances: Maintenance and Servicing	Odd	Physics

For Registration:

Ms. S. Udhayalakshmi
Course Coordinator
Department of Physics (UG)
KSRCAS

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Namakkal-Dt, Tamil Nadu, INDIA

Reach us @ www.ksrcas.edu

K.S.RANGASAMY COLLEGE OF ARTS AND SCIENCE (Autonomous)
TIRUCHENGODE - 637 215
DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2018 - 2019

STUDENT'S WILLINGNESS

COURSE CODE: 18PHCC01

Date: 30.07.2018

COURSE NAME: ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING

S. No	Reg. No	Name	Signature
1	17UBC012	GAYATHRI. P	P. Gayathri
2	17UBC019	JANANI SOWMIYA. S	S. Janani Sowmiya
3	17UBC036	RASHIKADEVI. A	A. Rashika Devi
4	17UBT005	ABUSHEIKH. S. P	S. P. Abu Sheikh
5	17UBT008	BHARATH. M	M. Bharath
6	17UBT016	DHARSHANBABU. P.B	P. B. Dharshan Babu
7	17UBT020	DINESH. S	S. Dinesh
8	17UBT026	GOKUL. R	R. Gokul
9	17UBT031	HARIKUMAR. K	K. Hari Kumar
10	17UBT050	MANESHA. G	G. Manesha
11	17UBT054	NARENDRAN. V	V. Narendran
12	17UBT061	PREETHI. S	S. Preethi
13	17UBT063	PREMIKA. G	G. Premika
14	17UBT083	SOUMYA. M	M. Soumya
15	17UBT095	VIMALADEVI. A	A. Vimala Devi
16	17UCA009	ANEESSRAHMAN. S	S. Aneesrahman
17	17UCA010	ANUSHA. S	S. Anusha
18	17UCA050	GURU. S	S. Guru
19	17UCA064	KARTHIK. S	S. Karthik
20	17UCA065	KAVIN. M	M. Kavin
21	17UCA079	MALLESHBASKAR. M	M. Malleshbaskar
22	17UCA085	MEGALA. P	P. Megala
23	17UCA090	MUTHUKUMAR. S	S. Muthukumar
24	17UCA091	MYTHILI. S	S. Mythili
25	17UCA123	PRIYADHARSINI. M	M. Priyadharsini
26	17UCA134	RITHICK ROSHAN. R	R. Rithick Roshan
27	17UCA142	SANJAAY. B. G	B. G. Sanjaay

S. Sathya
30/7/18
Coordinator

S. Sathya
K. S. Rangasamy College of Arts & Science
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Namakkal-Dt. Tamil Nadu.

S. Sathya
20/7/18
Head of the Department

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DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2018 – 2019

COURSE CODE: 18PHCC01


COURSE NAME: ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING

S. No	Reg. No	Name	AUGUST															
			1	2	6	7	8	9	10	13	14	17	20	21	22	23	24	29
1	17UBC012	GAYATHRI. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	17UBC019	JANANI SOWMIYA. S	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	a
3	17UBC036	RASHIKADEVI. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	17UBT005	ABUSHEIKH. S. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	17UBT008	BHARATH. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	17UBT016	DHARSHANBABU. P.B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	17UBT020	DINESH. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	17UBT026	GOKUL. R	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
9	17UBT031	HARIKUMAR. K	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
10	17UBT050	MANESHA. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	17UBT054	NARENDRAN. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	17UBT061	PREETHI. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	17UBT063	PREMIKA. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	17UBT083	SOUMYA. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	17UBT095	VIMALADEVI. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	17UCA009	ANESRAHMAN. S	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
17	17UCA010	ANUSHA. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	17UCA050	GURU. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	17UCA064	KARTHIK. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	17UCA065	KAVIN. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	17UCA079	MALLESHBASKAR. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	17UCA085	MEGALA. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	17UCA090	MUTHUKUMAR. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	17UCA091	MYTHILI. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	17UCA123	PRIYADHARSINI. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	17UCA134	RITHICK ROSHAN. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	17UCA142	SANJAAY. B. G	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/
Signature of the staff			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/


Staff in-charge


Head of the Department


Principal
21/8/18


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K.S.RANGASAMY COLLEGE OF ARTS AND SCIENCE (Autonomous)
TIRUCHENGODE – 637 215
DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2018 – 2019

COURSE CODE: 18PHCC01

COURSE NAME: ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING

S. No	Reg. No	Name	SEPTEMBER															
			3	4	5	6	7	10	11	12	13	19	20	24	25	26	27	28
1	17UBC012	GAYATHRI. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	17UBC019	JANANI SOWMIYA. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	17UBC036	RASHIKADEVI. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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5	17UBT008	BHARATH. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	17UBT016	DHARSHANBABU. P.B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	17UBT020	DINESH. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	17UBT026	GOKUL. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	17UBT031	HARIKUMAR. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	17UBT050	MANESHA. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	17UBT054	NARENDRAN. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	17UBT061	PREETHI. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	17UBT063	PREMIKA. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	17UBT083	SOUMYA. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	17UBT095	VIMALADEVI. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	17UCA009	ANEESRAHMAN. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	17UCA010	ANUSHA. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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24	17UCA091	MYTHILI. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	17UCA123	PRIYADHARSINI. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	17UCA134	RITHICK ROSHAN. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	17UCA142	SANJAAY. B. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Signature of the staff			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

[Signature]
Staff in-charge

PRINCIPAL

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Namakkal-Dt. Tamil Nadu.

[Signature]
Head of the Department

Department of Physics (UG)
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[Signature]
Principal

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DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2018 - 2019

COURSE CODE: 18PHCC01

COURSE NAME: ELECTRICAL APPLIANCES:
MAINTENANCE AND SERVICING


CLASS: UG


MAX. MARK: 100

S. No	Reg. No	Name	Ass1 (10)	Ass2 (10)	Test (75)	Att %	Att (5)	Total (100)
1	17UBC012	GAYATHRI. P	7	9	65	100	5	86
2	17UBC019	JANANI SOWMIYA. S	6	8	67	93	4	77
3	17UBC036	RASHIKADEVI. A	8	7	69	100	5	89
4	17UBT005	ABUSHEIKH. S. P	7	6	71	100	5	89
5	17UBT008	BHARATH. M	9	7	66	100	5	87
6	17UBT016	DHARSHANBABU. P.B	7	8	68	100	5	88
7	17UBT020	DINESH. S	6	9	70	100	5	90
8	17UBT026	GOKUL. R	7	8	72	93	4	83
9	17UBT031	HARIKUMAR. K	8	7	63	100	5	83
10	17UBT050	MANESHA. G	9	6	65	100	5	85
11	17UBT054	NARENDRAN. V	6	9	67	100	5	87
12	17UBT061	PREETHI. S	7	8	69	100	5	89
13	17UBT063	PREMIKA. G	8	7	71	100	5	91
14	17UBT083	SOUMYA. M	9	6	73	100	5	93
15	17UBT095	VIMALADEVI. A	8	7	61	93	4	80
16	17UCA009	ANEESRAHMAN. S	6	8	63	100	5	82
17	17UCA010	ANUSHA. S	7	9	65	100	5	91
18	17UCA050	GURU. S	8	7	67	100	5	87
19	17UCA064	KARTHIK. S	9	6	70	100	5	90
20	17UCA065	KAVIN. M	8	7	69	100	5	89
21	17UCA079	MALLESHBASKAR. M	7	9	71	100	5	92
22	17UCA085	MEGALA. P	9	7	73	100	5	94
23	17UCA090	MUTHUKUMAR. S	6	8	61	100	5	80
24	17UCA091	MYTHILI. S	8	6	63	100	5	82
25	17UCA123	PRIYADHARSINI. M	7	8	68	100	5	88
26	17UCA134	RITHICK ROSHAN. R	6	9	70	100	5	90
27	17UCA142	SANJAAY. B. G	7	8	72	93	4	83


Staff in-charge


Head of the Department


Principal


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Department of Physics (UG)
K. S. Rangasamy College of Arts and
Science (Autonomous), Tiruchengode-15.

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TIRUCHENGODE - 637 215
DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2018 - 2019**

Feedback

Date: 04.10.2018

Course Code: 18PHCC01

Course Name: Electrical Appliances: Maintenance and Servicing

After the completion of this course, based on the feedback collected from the course participants. The subject "Electrical Appliances: Maintenance and Servicing" provides a decent introduction to electricity. The course is in-depth and provides an overview of the usage of electrical appliances in the current situation as well as its future outlook. We came to know that what kind of waves are employed in microwave ovens and toasters after completing this course, the principles and operation of household appliances such as the refrigerator, iron, and mixer.


Course Coordinator


Head of the Department


Principal


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Namakkal-Dt. Tamil Nadu, INDIA**

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

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Namakkal-Dt. Tamil Nadu**

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TIRUCHENGODE – 637 215

DEPARTMENT OF PHYSICS

Summary of the Course

Certificate Course Name: Electrical Appliances: Maintenance and Servicing

Course Code: 18PHCC01

Objective of the Course:

After completion of the this course, the student will be able to

- Impart a basic knowledge of electrical quantities such as current, voltage, power, energy and frequency.
- Provide working knowledge for the analysis of basic DC and AC circuits used in electrical and electronic devices.
- Identify the type of heating appliances used for that particular application.
- Understand the concept of home appliances and their working.
- Realize the requirement of motorized appliances and other applications.

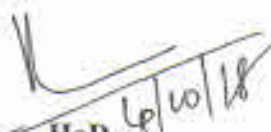
Total Number of Participants: 27

Course Coordinator : Ms. S. Udhayalakshmi
Assistant Professor
Department of Physics
KSRCAS

Course Conducted Academic Year: 2018-2019

Branch of the Students Participated: Biochemistry, Biotechnology, BCA


Course Coordinator


HoD


Principal

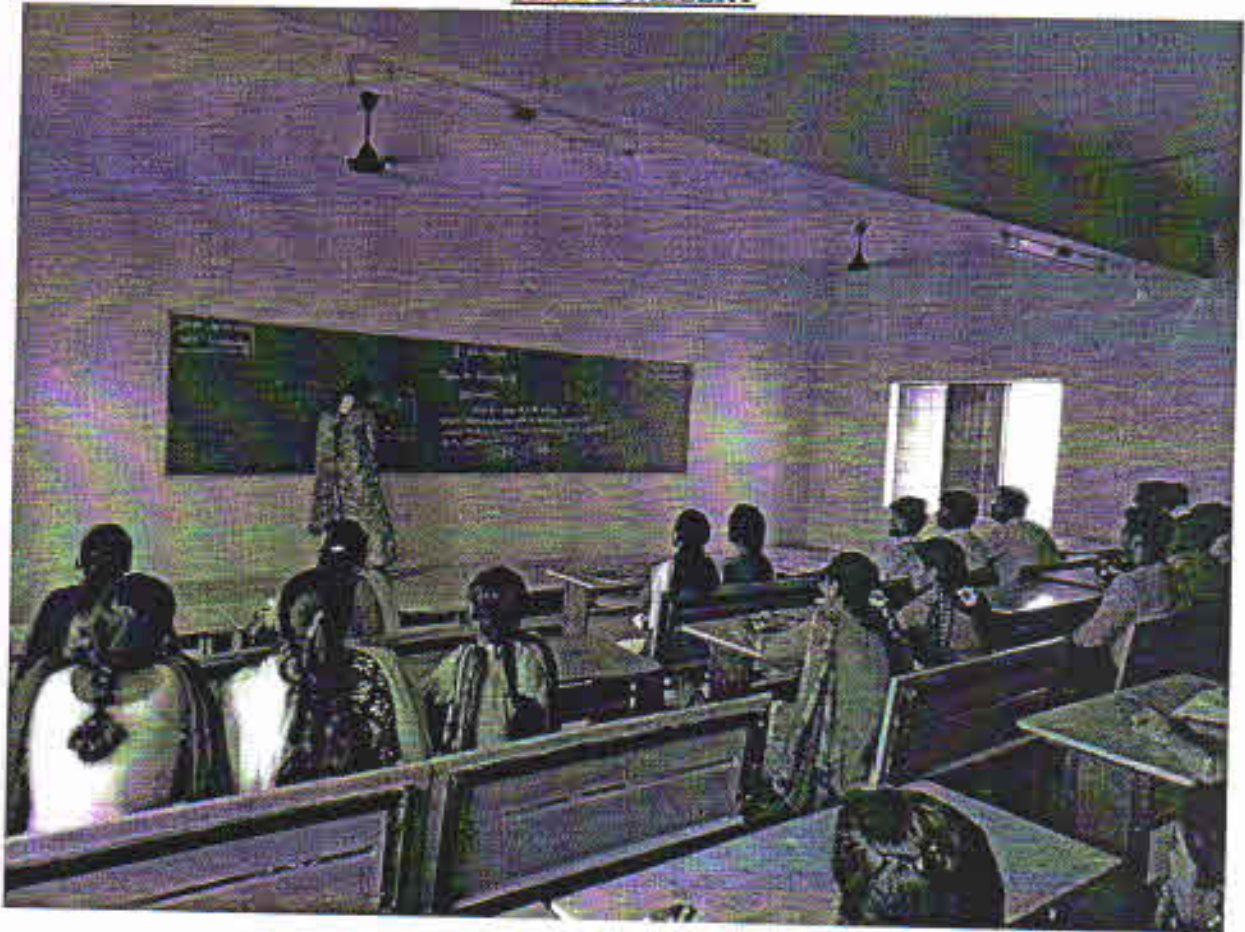
Dr. M. VENKATESH, M.Sc., Ph.D.
Assistant Professor & Head
Department of Physics
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DEPARTMENT OF PHYSICS UG**

PHOTOGALLERY



A snapshot of Value Added Course conducted by the Department of Physics entitled **ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING** during the periods of 01.08.2018 to 28.09.2018.

D.udhaya
Coordinator

[Handwritten signature]
K. S. Rangasamy College of Arts & Science
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TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, India

[Handwritten signature]
28/09/2018
HoD

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that *Gayathri. P of II - B.Sc., Biochemistry* has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, *K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Sudhany

Ms. S. Udhayalakshmi
Course Coordinator



Dr. M. Venkatesh
Head of the Department



Dr. V. Radhakrishnan
Principal

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that *Janani sowmiya. S of II - B.Sc., Biochemistry* has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh S. Rangasamy
Head of the Department
Principal

Dr. V. Radhakrishnan
Principal

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Rashikadevi. A of II - B.Sc., Biochemistry* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, *K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

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Tiruchengode - 637 215
Principal

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Abusheikh. S. P of II - B.Sc., Biotechnology* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 – 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

Dr. V. Radhakrishnan
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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that **Bharath. M of II - B.Sc., Biotechnology** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

Dr. V. Radhakrishnan
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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that *Dharshanbabu. P.B of II - B.Sc., Biotechnology* has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

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Dr. M. Venkatesh **Dr. V. Radhakrishnan**
Head of the Department Principal

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Dinesh. S of II - B.Sc., Biotechnology* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator



Dr. M. Venkatesh
Head of the Department



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Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that *Gokul. R of II - B.Sc., Biotechnology* has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, *K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.*

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh

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Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Harikumar. K of II - B.Sc., Biotechnology* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 – 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
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Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Manesha. G of II - B.Sc., Biotechnology* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

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Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that **Narendran. V of II - B.Sc., Biotechnology** has completed a **Value Added Course "Electrical Appliances: Maintenance and Servicing"** during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

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Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Preethi. S of II - B.Sc., Biotechnology* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
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Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Premika. G of II - B.Sc., Biotechnology* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

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Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Soumya. M of II - B.Sc., Biotechnology* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 – 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**


Ms. S. Udhayalakshmi
Course Coordinator


Dr. M. Venkatesh
Head of the Department


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Value Added Course

“Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Vimaladevi. A of II - B.Sc., Biotechnology* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 – 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

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Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Aneesrahman. S of II - BCA* has completed a *Value Added Course*
“Electrical Appliances: Maintenance and Servicing” during the academic year 2018 – 2019
odd semester conducted by the Department of Physics, *K.S. Rangasamy College of Arts and*
Science (Autonomous), Tiruchengode.

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

Dr. V. Radhakrishnan
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Value Added Course

“Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Anusha. S of II - BCA* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that **Guru. S of II - BCA** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

PRINCIPAL

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Namakkal-Dt. Tamil Nadu.

Dr. M. Venkatesh

Head of the Department

DR. V. Radhakrishnan

Principal

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that **Karthik. S of II - BCA** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

PRINCIPAL

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Principal

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Head of the Department



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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course

“Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that **Kavin. M of II - BCA** has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

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Nanakal-Dr. Tamil Nadu

Dr. V. Radhakrishnan
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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Malleshbaskar. M of II - BCA* has completed a Value Added Course
“**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 – 2019
odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and
Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that **Megala. P of II - BCA** has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that *Muthukumar. S of II - BCA* has completed a *Value Added Course*
"Electrical Appliances: Maintenance and Servicing" during the academic year 2018 - 2019
odd semester conducted by the Department of Physics, *K.S. Rangasamy College of Arts and*
Science (Autonomous), Tiruchengode.

Ms. S. Udhayalakshmi
Course Coordinator

Dr. M. Venkatesh
Head of the Department

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TIRUCHENGODE - 637 215
Mamabali-By, Tiruchengode, Tamil Nadu

Dr. V. Radhakrishnan
Principal

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that *Mythili. S of II - BCA* has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, **K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.**

Ms. S. Udhayalakshmi
Course Coordinator

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TIRUCHENGODE - 637 215
Vayakkal-Dr. Tamil Nadu

Dr. M. Venkatesh
Head of the Department

Dr. V. Radhakrishnan
Principal

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Tiruchengode - 637 215, Tamil Nadu, India

Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Priyadharsini. M of II - BCA* has completed a Value Added Course
“**Electrical Appliances: Maintenance and Servicing**” during the academic year 2018 – 2019
odd semester conducted by the Department of Physics, *K.S. Rangasamy College of Arts and
Science (Autonomous), Tiruchengode.*

Ms. S. Udhayalakshmi
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Value Added Course “Electrical Appliances: Maintenance and Servicing” Certificate of Completion

This is to certify that *Rithick Roshan. R of II - BCA* has completed a *Value Added Course*
“Electrical Appliances: Maintenance and Servicing” during the academic year 2018 - 2019
odd semester conducted by the Department of Physics, *K.S. Rangasamy College of Arts and*
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**“Electrical Appliances: Maintenance and Servicing”
Certificate of Completion**

This is to certify that Sanjaay. B. G of II - BCA has completed a Value Added Course “Electrical Appliances: Maintenance and Servicing” during the academic year 2018 - 2019 odd semester conducted by the Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.



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