



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: 2019 - 2020

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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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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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M.V.

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

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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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

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DEPARTMENT OF PHYSICS UG

Circular

Date: 24.07.2019

<p>From The Head Department of Physics (UG) K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode – 637 215</p>	<p>To 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 2019 and ends by September 2019. 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.

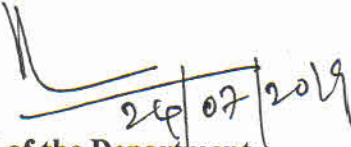
Ms. S. Udhayalakshmi

Course coordinator

Department of Physics (UG)

KSRCAS


Staff in-charge


Head of the Department


Principal

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

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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)
Tiruchengode - 637 215, Tamil Nadu, India



NB
29/08/2019

Value Added Course Offered by the Department of Physics



ACADEMIC YEAR 2019 - 2020

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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Reach us @ www.ksrcas.edu

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DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2019 - 2020

STUDENT'S WILLINGNESS

COURSE CODE: 18PHCC01

Date: 29.07.2019

COURSE NAME: ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING

S. No	Reg. No	Name	Signature
1	18UBA017	B. ESSACK	B. Essack
2	18UBA036	R. JEEVA	R. Jeeva
3	18UBA056	R MANIKANDAN	Manikandan R
4	18UBA091	C.SANKAR	C. Sankar
5	18UBC011	R. HARIPRASAD	R. Hariprasad
6	18UBC015	M. KAVIYARASU	Kaviyasu
7	18UBC019	C. MADHANKUMAR	C. Madhankumar
8	18UBC020	R. MANIKANDAN	R. Manikandan
9	18UCA039	V. S. HEMACHANDRAN	Hemachandran
10	18UCA073	K. MAYURI	K. Mayuri
11	18UCA082	S. MUKILAN	S. Mukilan
12	18UCA086	S. NATARAJAN	S. Natarajan
13	18UCA091	N. NIRMAL	N. Nirmal
14	18UCA103	S. PRIYADHARSAN	S. Priyadharsan
15	18UCA120	N. RAVIKUMAR	N. Ravikumar
16	18UCA122	R. REVAN	R. Revan
17	18UCC018	ASWANDH P MOHAN	Aswandh P Mohan
18	18UCC019	S. AZEES RAHUMAN	S. Azees Rahuman
19	18UCC062	D. KAVIN	D. Kavin
20	18UCC083	M. G. MADHUSUDHANAN	M. G. Madhusudhanan
21	18UCC093	K. MOHANKUMAR	K. Mohankumar
22	18UCC094	S. MOHANRAJ	S. Mohanraj
23	18UCC110	M. PRASANNA VENKAESHWARAN	M. Prasanna Venkateshwaran
24	18UCC174	Y. THILAKRAJ	Y. Thilakraj
25	18UCC176	B. VIGNESHKUMAR	B. Vigneshkumar

Dudhraj
 Coordinator 29/7/19

[Signature]
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[Signature]
 29/7/2019
 Head of the Department

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DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2019 - 2020

COURSE CODE: 18 PHCC01

COURSE NAME: ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING

S. No	Reg. No	Name	AUGUST													
			7	8	9	13	14	16	19	20	21	22	26	27	28	29
1	18UBA017	B. ESSACK	/	/	/	/	/	a	/	/	/	/	/	/	/	/
2	18UBA036	R. JEEVA	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	18UBA056	R MANIKANDAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	18UBA091	C.SANKAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	18UBC011	R. HARIPRASAD	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	18UBC015	M. KAVIYARASU	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	18UBC019	C. MADHANKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	18UBC020	R. MANIKANDAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	18UCA039	V. S. HEMACHANDRAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	18UCA073	K. MAYURI	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	18UCA082	S. MUKILAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	18UCA086	S. NATARAJAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	18UCA091	N. NIRMAL	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	18UCA103	S. PRIYADHARSAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	18UCA120	N. RAVIKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	18UCA122	R. REVAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	18UCC018	ASWANDH P MOHAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	18UCC019	S. AZEES RAHUMAN	/	/	/	a	/	/	/	/	a	/	/	/	/	/
19	18UCC062	D. KAVIN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	18UCC083	M. G.MADHUSUDHANAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	18UCC093	K. MOHANKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	18UCC094	S. MOHANRAJ	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	18UCC110	M. PRASANNA VENKAESHWARAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	18UCC174	Y. THILAKRAJ	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	18UCC176	B. VIGNESHKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Signature of the staff			/	/	/	/	/	/	/	/	/	/	/	/	/	/

Quahus
Staff in-charge

[Signature]
Head of the Department
2 August 2019

[Signature]
Principal
3/8/19

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TIRUCHENGODE – 637 215
DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2019 – 2020

COURSE CODE: 18PHCC01

COURSE NAME: ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING

S. No	Reg. No	Name	SEPTEMBER														
			3	4	5	7	9	10	12	16	17	18	19	20	21	27	30
1	18UBA017	B. ESSACK	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/
2	18UBA036	R. JEEVA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	18UBA056	R MANIKANDAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	18UBA091	C.SANKAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	18UBC011	R. HARIPRASAD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	18UBC015	M. KAVIYARASU	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	18UBC019	C. MADHANKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	18UBC020	R. MANIKANDAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	18UCA039	V. S. HEMACHANDRAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	18UCA073	K. MAYURI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	18UCA082	S. MUKILAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	18UCA086	S. NATARAJAN	/	/	/	a	/	/	/	/	a	/	/	/	/	/	/
13	18UCA091	N. NIRMAL	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	18UCA103	S. PRIYADHARSAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	18UCA120	N. RAVIKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	18UCA122	R. REVAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	18UCC018	ASWANDH P MOHAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	18UCC019	S. AZEES RAHUMAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	18UCC062	D. KAVIN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	18UCC083	M. G.MADHUSUDHANAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	18UCC093	K. MOHANKUMAR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	18UCC094	S. MOHANRAJ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	18UCC110	M. PRASANNA VENKAESHWARAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	18UCC174	Y. THILAKRAJ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	18UCC176	B. VIGNESHKUMAR	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/
Signature of the staff			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/


Staff in-charge


Head of the Department


Principal

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DEPARTMENT OF PHYSICS UG

ACADEMIC YEAR: 2019 - 2020

APPLIANCES: MAINTENANCE AND
SERVICING

COURSE CODE: 18 PHCC01

CLASS: UG

MAX. MARK: 100

S. No	Reg. No	Name	Ass1 (10)	Ass2 (10)	Test (75)	Att %	Att (5)	Total (100)
1	18UBA017	B. ESSACK	7	8	69	93	4	81
2	18UBA036	R. JEEVA	6	9	71	100	5	91
3	18UBA056	R MANIKANDAN	8	8	66	100	5	87
4	18UBA091	C.SANKAR	7	7	68	100	5	87
5	18UBC011	R. HARIPRASAD	9	6	70	100	5	90
6	18UBC015	M. KAVIYARASU	7	9	72	100	5	93
7	18UBC019	C. MADHANKUMAR	6	8	63	100	5	82
8	18UBC020	R. MANIKANDAN	7	7	65	100	5	84
9	18UCA039	V. S. HEMACHANDRAN	8	6	67	100	5	86
10	18UCA073	K. MAYURI	9	7	69	100	5	90
11	18UCA082	S. MUKILAN	6	8	71	100	5	90
12	18UCA086	S. NATARAJAN	7	9	73	93	4	86
13	18UCA091	N. NIRMAL	8	7	69	100	5	89
14	18UCA103	S. PRIYADHARSAN	9	6	71	100	5	91
15	18UCA120	N. RAVIKUMAR	9	7	73	100	5	94
16	18UCA122	R. REVAN	6	9	61	100	5	81
17	18UCC018	ASWANDH P MOHAN	8	7	63	100	5	83
18	18UCC019	S. AZEES RAHUMAN	7	8	65	93	4	77
19	18UCC062	D. KAVIN	6	6	67	100	5	84
20	18UCC083	M. G.MADHUSUDHANAN	8	9	61	100	5	83
21	18UCC093	K. MOHANKUMAR	7	8	63	100	5	83
22	18UCC094	S. MOHANRAJ	9	7	65	100	5	86
23	18UCC110	M. PRASANNA VENKAESHWARAN	7	6	67	100	5	85
24	18UCC174	Y. THILAKRAJ	6	7	70	100	5	88
25	18UCC176	B. VIGNESHKUMAR	8	9	63	93	4	77


Staff in-charge


Head of the Department


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DEPARTMENT OF PHYSICS UG
ACADEMIC YEAR: 2019 - 2020

COURSE CODE: 18PHCC01

COURSE NAME: ELECTRICAL APPLIANCES: MAINTENANCE AND SERVICING

Feedback

According to students, the subject "Electrical Appliances: Maintenance and Servicing" gives a good overview of electricity. The course is comprehensive and provides an overview of the current state of electrical appliance usage as well as its prospects. After finishing this course, we learned about the effect and applications of microwave ovens and toasters, as well as the concepts and operation of domestic appliances including the refrigerator, iron box, and mixer.

The overall feedback collected from the participants, after completion of the course given the eye-opening knowledge of electrical appliances and usages of household appliances.


Course Coordinator


HoD


Principal


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Dr. M. VENKATESH, M.Sc., Ph.D.
Assistant Professor & Head
Department of Physics
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Tiruchengode - 637 215, Tamil Nadu, India

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Namakkal-Dl. Tamil Nadu, India

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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: 25

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

Course Conduced Accademic Year: 2019-2020

**Branch of the Students Participated: BBA, Biochemistry, BCA, B.Com(CA)
and Computer Science**


Course Coordinator


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


Principal

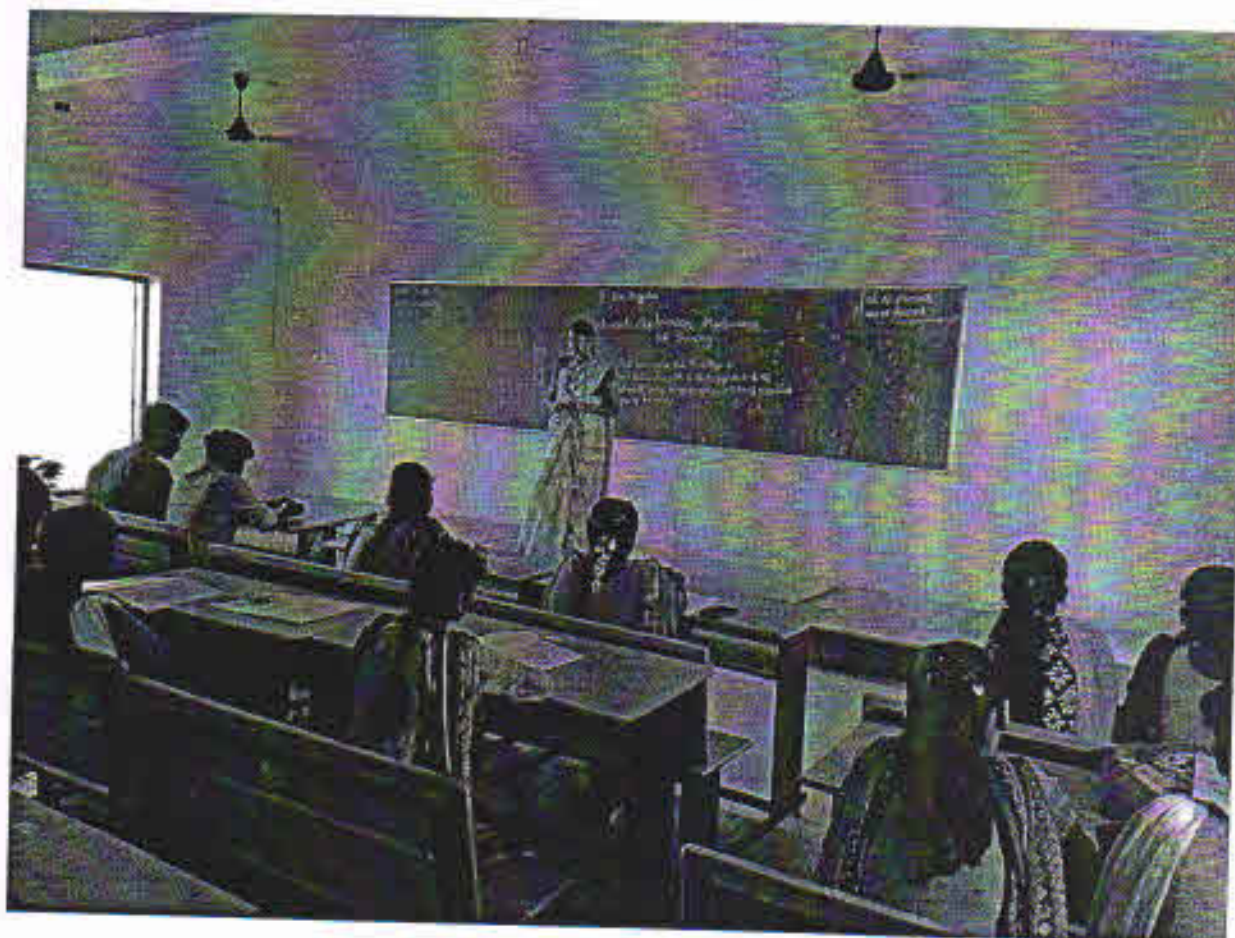
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Namakkal-DI, Tamil Nadu, INDIA



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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 07.08.2019 to 30.09.2019.


Coordinator




30/9/2019
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 **B. Essack** of **II – BBA** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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
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 **R. Jeeva** of **II – BBA** has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2019 – 2020 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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Dr. V. Radhakrishnan
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Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that **R. Manikandan** of **II – BBA** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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 **C.Sankar** of **II – BBA** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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 *R. Hariprasad* of *II – B. Sc., Biochemistry* has completed a Value Added Course "*Electrical Appliances: Maintenance and Servicing*" during the academic year 2019 – 2020 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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Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that *M. Kaviyarasu* of *II – B. Sc., Biochemistry* has completed a Value Added Course "*Electrical Appliances: Maintenance and Servicing*" during the academic year 2019 – 2020 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 **C. Madhankumar** of **II – B. Sc., Biochemistry** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year **2019 – 2020** 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 *R. Manikandan* of *II – B. Sc., Biochemistry* has completed a Value Added Course “*Electrical Appliances: Maintenance and Servicing*” during the academic year 2019 – 2020 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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Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that **V. S. Hemachandran** of **II – BCA** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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 *K. Mayuri* of *II – BCA* has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2019 – 2020 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 "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

*This is to certify that **S. Mukilan** of **II – BCA** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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 **S. Natarajan** of **II – BCA** has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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 N. Nirmal of II – BCA has completed a Value Added Course "Electrical Appliances: Maintenance and Servicing" during the academic year 2019 – 2020 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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Value Added Course "Electrical Appliances: Maintenance and Servicing" Certificate of Completion

This is to certify that S. Priyadharsan of II – BCA has completed a Value Added Course "Electrical Appliances: Maintenance and Servicing" during the academic year 2019 – 2020 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 N. Ravikumar of II – BCA has completed a Value Added Course "Electrical Appliances: Maintenance and Servicing" during the academic year 2019 – 2020 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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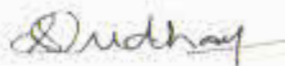
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Makkal-Dr. V. Radhakrishnan

Dr. V. Radhakrishnan
Principal



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

*This is to certify that R. Revan of II – BCA has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2019 – 2020 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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Tiruchengode - 637 215, Tamil Nadu, India

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

This is to certify that *Aswandh P Mohan* of *II – B.COM (CA)* has completed a Value Added Course "*Electrical Appliances: Maintenance and Servicing*" during the academic year 2019 – 2020 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
HoD

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

This is to certify that *S. Azees Rahuman* of *II – B.COM (CA)* has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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 S. Mohanraj of II – B.COM (CA) has completed a Value Added Course "Electrical Appliances: Maintenance and Servicing" during the academic year 2019 – 2020 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
HoD

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

This is to certify that *D. Kavin* of *II – B.COM (CA)* has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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 M. G. Madhusudhanan of II – B.COM (CA) has completed a Value Added Course "Electrical Appliances: Maintenance and Servicing" during the academic year 2019 – 2020 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 K. Mohankumar of II – B.COM (CA) has completed a Value Added Course "Electrical Appliances: Maintenance and Servicing" during the academic year 2019 – 2020 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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Tamil Nadu

Dr. V. Radhakrishnan
Principal



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

*This is to certify that M. Prasanna Venkaeshwaran of II – B.COM (CA) has completed a Value Added Course “**Electrical Appliances: Maintenance and Servicing**” during the academic year 2019 – 2020 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 Y. Thilakraj of II – B.COM (CA) has completed a Value Added Course "Electrical Appliances: Maintenance and Servicing" during the academic year 2019 – 2020 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
HoD

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

This is to certify that *B. Vigneshkumar* of *II – B.COM (CA)* has completed a Value Added Course "**Electrical Appliances: Maintenance and Servicing**" during the academic year 2019 – 2020 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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