



ESTD 1982

SML Government Degree College

Yemmiganur, Kurnool dist., Andhra Pradesh

Affiliated to Rayalaseema University, Kurnool-518360, /



DEPARTMENT OF PHYSICS

CERTIFICATE COURSE

ON

“Electrical Home Appliances”

Academic Year: 2018-19

FROM 07-07-2018 TO 01-09-2018

[Signature]
Lecturer in Charge
Dept. of Physics
S.M.L. Govt. Degree College
YEMMIGANUR 518 360
Kurnool Dt. A.P.



[Signature]
PRINCIPAL
S.M.L. Govt. Degree College
YEMMIGANUR, Kurnool (Dt.)



SML Government Degree College

Yemmiganur, Kurnool dist., Andhra Pradesh



DEPARTMENT OF PHYSICS
CERTIFICATE COURSE, 2018-19

Name of the certificate course: "Electrical Home Appliances"

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DEPARTMENT OF PHYSICS

DEPARTMENTAL MINUTES

(ACADEMIC YEAR 2018-19)

The faculty members of the Physics Department met in the Principal's chamber to discuss to conduct a Certificate Course in Physics, titled "Electrical Home Appliances" under the chairmanship of the Principal and the faculty of the department on 30/06/2018

AGENDA:

Starting of certificate course for II B.Sc MPCs and MPC Students.

RESOLUTIONS:

- 1) It is resolved to start the certificate course titled "Electrical Home Appliances" from 07/07/2018 to 01/09/2018 (36 hours) for the academic year 2018-19.
- 2) It is also resolved to frame the syllabus, regulations for the successful completion of the Certificate course titled "Electrical Home Appliances".
- 3) Resolved to Enroll 24 Students to this course.
- 4) Resolved to conduct classes in all working days from 9am to 10am.
- 5) Resolved to conduct exam after completion of the course and issue certificates to qualified candidates.
- 6) Qualifying Marks is 40%.

Members Present:

[Handwritten Signature]
In-charge
Dept. of Physics
S.M.L. Govt. Degree College
YEMMIGANUR 518 360
Kurnool Dt. A.P.

[Handwritten Signature]
Signature of the Principal
PRINCIPAL
SML. Govt. Degree College
YEMMIGANUR, Kurnool (Dt.)

1. Sri Jithmanth-Incharge
2. B. Masood Vala. *[Handwritten Signature]*
Lecturer.



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From
The In-Charge
Department of Physics
SML GOVT Degree college
Yemmiganur

To
The Principal,
SML GOVT Degree college
Yemmiganur.
Kurnool District.

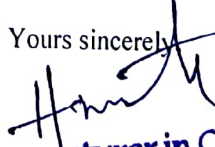
Respected Sir,

Sub: Department of Physics-to start a certificate course on "Electrical Home Appliances" Permission-request-regarding.

It is to submit for your consideration that we are going to conduct subject related certificate course namely "Electrical Home appliances" for the benefit student in our department. The course duration should be 36 hours. We are going to start this course in the academic year 2018-2019 i.e. from 07-07-2018 to 01-09-2018. Hence, I request you to permit us for the establishment of the above course.

Thanking you Sir,

Yours sincerely


Lecturer in Charge
Dept. of Physics
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DEPARTMENT OF PHYSICS

Circular

All the students are hereby informed that the Department of Physics is going to organize a 36 hours Certificate course namely "Electrical Home appliances" for II B.Sc MPCs and MPC Students to complement their knowledge and skills in the subject. All the interested students are instructed to enroll their names in Department of Physics and obtain the syllabus on or before 07-07-2018. The classes will be commenced from 07-07-2018.


Signature of the In-charge
Lecturer in Charge
Dept. of Physics
S.M.L. Govt. Degree College
YEMMIGANUR 518 360
Kurnool Dt. A.P.


Signature of the Principal
PRINCIPAL
SML. Govt. Degree College
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DEPARTMENT OF PHYSICS

CERTIFICATE COURSE IN "Electrical Home Appliances"

Academic Year 2018-19

Students Willingness and Enrolment list

S.No	Regd - No	Name of the student	Class	Signature
1.	173049016	A SANKAR	II MPCs	Sankar
2.	173049017	B CHINNA RANGANNA	II MPCs	B. Chinna Ranganna
3.	173049018	B HARIKRISHNA	II MPCs	B. Harikrishna
4.	173049019	B RANGANNA	II MPCs	Ranganna
5.	173049020	B T CHIRANJEEVI	II MPCs	Chiranjeevi
6.	173049021	C SAI KRISHNAREDDY	II MPCs	Sai Krishnareddy
7.	173049022	C VIJAY KUMAR	II MPCs	Vijay Kumar
8.	173049023	G AMRUTHA RAJU	II MPCs	Amrutha Raju
9.	173049024	G CHANDRA SEKHAR	II MPCs	G. Chandra Sekhar
10.	173049025	G DAMODAR	II MPCs	Damodar
11.	173049026	K SURYA PRAKASH	II MPCs	K. Surya Prakash
12.	173049027	K GOUSE MOHIDDIN	II MPCs	Gouse Mohiddin
13.	173049028	K VEERESH	II MPCs	Veeresh
14.	173049029	K VEERESH BABU	II MPCs	Veeresh Babu
15.	173049030	K YUNUS BASHA	II MPCs	Yunus Basha
16.	173049031	M SHIREESHA	II MPCs	Shireesha
17.	173049033	N FAKRUDDIN	II MPCs	N. Fakruddin

S.No	Regd - No	Name of the student	Class	Signature
18.	173049034	S P RASOOL	II MPCs	S P Rasool
19.	173049035	V DHANUNJAYA	II MPCs	V. Dhanunjaya
20.	173049036	B NARASAMMA	II MPC	B. Narasamma
21.	173049037	B VEERESH	II MPC	B. Veeresh
22.	173049038	B VISHNU SWETHA	II MPC	B. Vishnu Swetha
23.	173049039	B VIJAY KUMAR	II MPC	B. Vijay Kumar
24.	173049041	P KASIM	II MPC	P. Kasim


 Signature of Lecturer in Charge
 Dept. of Physics
 S.M.L. Govt. Degree College
 YEMMIGANUR 518 360
 Kurnool Dt. A.P.


 Signature of the Principal
PRINCIPAL
 SML. Govt. Degree College
 YEMMIGANUR, Kurnool



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DEPARTMENT OF PHYSICS

Name of the certificate course: "Electrical Home appliances"

INTRODUCTION:

Electrical home appliances in Physics involves a deep understanding of fundamentals principles such as electricity, Magnetism, electromagnetic induction, energy conversion, thermo-dynamics and heat transfer. These principles collectively enable the development, functioning and safe operation of diverse range of electrical appliances that become integral to modern homes.

OBJECTIVE OF THE COURSE:

The objective of this certificate course in "Electrical home appliances" is to provide participants with a practical and theoretical foundation in the field of household appliances, enabling them to confidently operate, maintain, and troubleshoot various electrical devices while prioritizing safety and energy efficiency.

COURSE DURATION: 36 Hours

LEVEL: UG

COURSE TYPE: Scheduled

CERTIFICATION: After the completion of course an assessment test is conducted to evaluate the performance of the participants.



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DEPARTMENT OF PHYSICS

Name of the certificate course: "Electrical Home appliances"

SYLLABUS

(ACADEMIC YEAR 2018-2019)

Unit-I Basic concepts

Voltage, Current, Resistance, Capacitance, Inductance, Electrical conductors and Insulators, Ohm's law, Series and parallel combinations of resistors, Galvanometer, Ammeter, Voltmeter, Multimeter, Transformers, Electrical energy, Power, Kilowatt hour (kWh), Consumption of electrical power

Unit-II Electrical Appliances Applications:

Basic electrical practice and safety-Phase, Neutral and earth identification-IMMERSION ROD (Water heater)-One lamp controlled by switch-Electric kettle -Stair case wiring-IRON BOX-Food mixer-Ceiling fan-Wet grinder-geyser water heater-Electrical earthing practice Socket and fan regulator connections-Bridge rectifier-Refrigerator repair service

H. H. H.
Lecturer in Charge
Dept. of Physics
S.M.L. Govt. Degree College
YEMMIGANUR 518 360
Kurnool Dt. A.P.

REGISTER OF ATTENDANCE & FEES

2017-18

Name of the Institute SML Govt. Degree College
 Certificate Course from 01-1-2018 to 01-09-2018

S.NO.	Admission No.	NAMES	1	2	3	4	5	6	7	8	9	10	11	12
			3/1/18	7/1/18	10/1/18	14/1/18	18/1/18	22/1/18	26/1/18	30/1/18	3/2/18	7/2/18	10/2/18	14/2/18
1	173049016	A. Sankar	/	/	a	/	/	/	/	/	/	a	a	/
2	173049017	B. chenna Ranganma	/	a	a	/	/	/	a	/	/	a	a	/
3	173049018	B. Harikrishna	/	/	/	a	/	/	a	a	/	/	a	/
4	173049019	B. Ranganma	/	a	/	/	/	/	/	a	a	/	/	/
5	173049020	B.T. cheranjeevi	/	a	/	/	/	/	/	/	/	/	a	a
6	17349021	C. Sai Krishna Reddy	/	/	a	a	/	/	/	a	a	/	/	/
7	17349022	C. Vijay Kumar	/	a	/	/	/	/	/	/	a	a	/	/
8	17349023	G. Amrutharaju	/	/	a	a	a	/	/	/	/	/	/	/
9	17349024	G. Chandrasekhar	/	/	/	a	a	a	/	/	a	/	/	/
10	17349025	G. Damodar	/	a	/	/	/	a	/	/	/	a	/	/
11	17349026	K. Surya Prakash	/	a	/	/	/	a	/	/	/	a	a	a
12	17349027	K. Gouee modin	a	/	/	/	/	/	/	/	/	a	a	a
13	17349028	K. Veeresh	a	/	/	a	/	/	/	/	/	a	a	/
14	17349029	K. Veeresh babu	a	/	/	/	a	a	/	/	/	/	a	/
15	17349030	K. Yunus Bashe	/	/	a	/	/	a	a	/	/	/	a	a
16	17349031	M. Shireesh	/	/	/	/	a	a	/	/	/	/	a	a
17	17349033	M. Gaksuddin	a	a	/	/	/	/	/	/	/	/	a	a
18	17349034	S.P. Rasool	/	a	a	a	/	/	/	/	/	a	a	/
19	17349035	V. Dhanunjaya	a	/	/	a	/	/	a	a	/	/	/	a
20	173049036	B. Narasamma	/	/	/	/	/	a	a	/	/	/	a	a
21	173049037	B. Veeresh	/	a	/	a	/	/	/	a	/	/	/	a
22	173049038	B. visbnuvetha	a	/	/	/	a	a	a	/	/	/	a	a
23	173049039	B. Vijay Kumar	/	/	/	a	a	a	a	/	/	/	/	a
24	173049041	P. Kasim	/	/	a	/	/	a	/	/	/	a	a	a

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Name of the certificate course: "Electrical Home appliances"

DEPARTMENT OF PHYSICS

Question Paper for Final assessment- Max Marks: 50

I. Answer the following objective questions. Each carries one mark.

15 Marks

1. Which material is used to make heating element?

A) Silver B) copper C) nichrome D) aluminum

2. Which type of A.C single phase motor is used in food mixer?

A) Universal motor B) repulsion motor C) capacitor motor D) Shaded pole motor

3. What is the function of neutral path in AC supply system for appliances?

A) Provides current return path B) Provides voltage constant

C) Provides voltage different D) none of the above

4. Which type of motor is used in the wet grinder?

A) Universal motor B) repulsion motor C) capacitor start motor D) 3Phase motor

5. Which device converts sunlight into electrical energy?

A) Photo voltaic cell B) Liquid crystal diode

C) Light emitting diode D) Light dependent resistor

6. Which device converts sunlight into electrical energy?

A) Photo voltaic cell B) Liquid crystal diode C) Light emitting diode

D) Light dependent resistor

7. Which material is used as a filament in incandescent lamp?

A) Nichrome B) Tungsten C) copper D) Aluminum

8. Which instrument is used to find phase supply is available or not by the electrician

A) Neon tester B) screw driver C) cutting pliers D) none of the above

9. Which one is the good conductor of electricity?

A) Copper B) silver C) iron D) gold

10. Which instrument is used to find continuity of the conductor?

A) Tester B) continuity tester C) earth tester D) merger

11. How many no of diodes required in full wave rectifier?

A) 1 B) 3 C) 4 D) 2

12. Capacitance is measured in -----units?

A) Henry B) ohms C) farads D) none

13. Inductance units _____?

A) Farads B) Henry C) Ohms D) none

14. How much is A.C single phase voltage?

A) 110v B) 240V C) 415v D) 12v

15. Red color wire is used for _____?

A) Neutral B) earth C) Phase D) ground

II. Give brief report of the following questions

5x7=35 Marks

16. Write fault find procedure for IRON BOX?

17. Write differences between Voltage and Current.

18. Write a brief note on Inductance.

19. Explain about Multimeter.

20. Explain about transformer.

Hant
Lecturer in Charge
Dept. of Physics
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DEPARTMENT OF PHYSICS

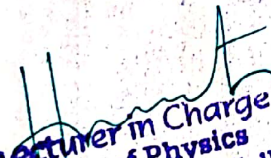
CERTIFICATE COURSE IN "Electrical Home Appliances"

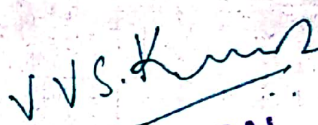
Academic year 2018-19

STUDENTS MARKS AWARD LIST

S.No	Regd - No	Name of the student	Class	Max marks: 50	Grade
1	173049016	A SANKAR	II MPCs	40	A
2	173049017	B CHINNA RANGANNA	II MPCs	28	B
3	173049018	B HARIKRISHNA	II MPCs	39	A
4	173049019	B RANGANNA	II MPCs	38	A
5	173049020	B T CHIRANJEEVI	II MPCs	43	A
6	173049021	C SAI KRISHNAREDDY	II MPCs	41	A
7	173049022	C VIJAY KUMAR	II MPCs	26	B
8	173049023	G AMRUTHA RAJU	II MPCs	39	A
9	173049024	G CHANDRA SEKHAR	II MPCs	42	A
10	173049025	G DAMODAR	II MPCs	43	A
11	173049026	K SURYA PRAKASH	II MPCs	40	A
12	173049027	K GOUSE MOHIDDIN	II MPCs	36	A
13	173049028	K VEERESH	II MPCs	39	A
14	173049029	K VEERESH BABU	II MPCs	28	B
15	173049030	K YUNUS BASHA	II MPCs	28	B

16	173049031	M SHIREESHA	II MPCs	42	A
17	173049033	N FAKRUDDIN	II MPCs	33	A
18	173049034	S P RASOOL	II MPCs	28	B
19	173049035	V DIHANUNJAYA	II MPCs	39	A
20	173049036	B NARASAMMA	II MPC	38	A
21	173049037	B VEERESH	II MPC	26	B
22	173049038	B VISHNU SWETHA	II MPC	43	A
23	173049039	B VIJAY KUMAR	II MPC	41	A
24	173049041	P KASIM	II MPC	40	A


Lecturer in Charge
Dept. of Physics
S.M.L. Govt. Degree College
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Kurnool Dt. A.P.


PRINCIPAL
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DEPARTMENT OF PHYSICS

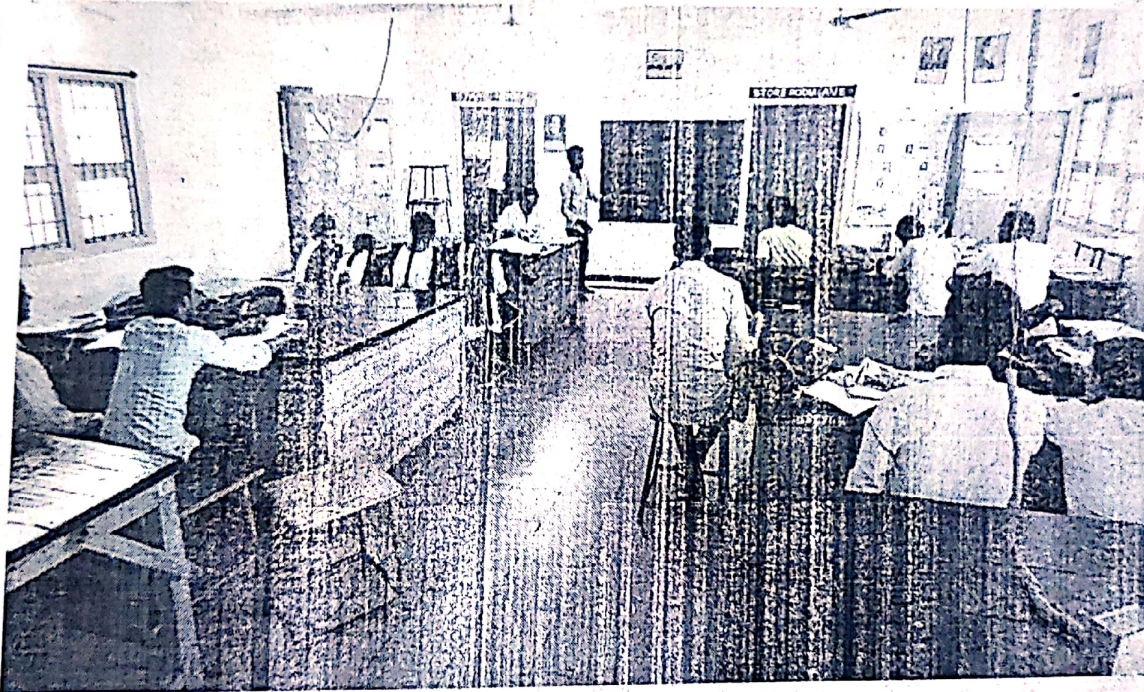
Name of the certificate course: "Electrical Home appliances"

REPORT

As a part of academic activity, the department of Physics has conducted certificate course, namely "Electrical Home appliances" from 07-07-2018 to 01-09-2018 for the academic year 2018-2019. The important objective of the course is to improve basic knowledge in repairing of Home appliances among the Degree students. As per the instructions given by the Principal during the minutes of the meeting, 24 numbers II B.Sc MPCs and MPC students are enrolled into the certificate course . To enrich the Basics in repairing of Home appliances. At the end of the course, an external examination has conducted for the assessment of learners understanding levels of knowledge. The minimum qualifying marks for the award of certification is 40%. All the Students completed the course successfully and got certificates during the academic year 2018-2019.

[Handwritten Signature]
Signature of Lecturer in Charge
Dept. of Physics
S.M.L. Govt. Degree College
YEMMIGANUR 518 360
Kurnool Dt. A.P.

[Handwritten Signature]
PRINCIPAL
Signature of the Principal
S.M.L. Govt. Degree College
YEMMIGANUR, Kurnool (Dt.)





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DEPARTMENT OF PHYSICS

CERTIFICATE COURSE IN "Electrical Home Appliances"

Feed back of the Students

S.No	Regd - No	Name of the student	Class	Feed back
1	173049016	A SANKAR	II MPCs	excellent
2	173049017	B CHINNA RANGANNA	II MPCs	Very very Good
3	173049018	B HARIKRISHNA	II MPCs	Excellent
4	173049019	B RANGANNA	II MPCs	Good
5	173049020	B T CHIRANJEEVI	II MPCs	Excellent
6	173049021	C SAI KRISHNAREDDY	II MPCs	very very good
7	173049022	C VIJAY KUMAR	II MPCs	satisfaction
8	173049023	G AMRUTHA RAJU	II MPCs	Excellent
9	173049024	G CHANDRA SEK HAR	II MPCs	Good
10	173049025	G DAMODAR	II MPCs	Excellent
11	173049026	K SURYA PRAKASH	II MPCs	Very Good.
12	173049027	K GOUSE MOHIDDIN	II MPCs	very full good
13	173049028	K VEERESH	II MPCs	excellent
14	173049029	K VEERESH BABU	II MPCs	Very Very good
15	173049030	K YUNUS BASHA	II MPCs	Good
16	173049031	M SHIREESHA	II MPCs	Satisfaction
17	173049033	N FAKRUDDIN	II MPCs	Very full Good

S.No	Regd - No	Name of the student	Class	Feed back
18	173049034	S P RASOOL	II MPCs	Satisfaction
19	173049035	V DHANUNJAYA	II MPCs	Satisfaction
20	173049036	B NARASAMMA	II MPC	Very Good
21	173049037	B VEERESH	II MPC	Good
22	173049038	B VISHNU SWETHA	II MPC	Exellent
23	173049039	B VIJAY KUMAR	II MPC	Good
24	173049041	P KASIM	II MPC	Very Good



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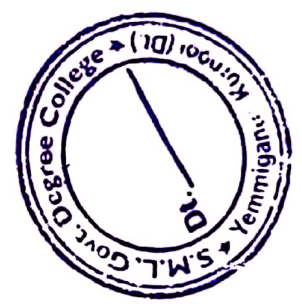
CERTIFICATE OF COMPLETION

Academic year 2018-19

THIS IS CERTIFY THAT MR / MISS.....B. HARI KRISHNA.....STUDYING.....II MPCS.....HAS SUCCESSFULLY COMPLETED A CERTIFICATE COURSE IN ELECTRICAL HOME APPLIANCES ORGANISED BY THE DEPARTMENT OF PHYSICS, SML GOVERNMENT DEGREE COLLEGE YEMMIGANUR KURNOOL DISTRICT HELD FROM 07-07-2018 TO 01-09-2018.


Lecturer in Charge

Department of Physics




PRINCIPAL