

## Meeting - 1

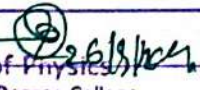
Date: 26-09-2019

The department meeting was held in the Physics lab on 26-09-2019. After discussing with the Principal, faculty of department of Physics, Mathematics, Chemistry, computer science and the students of Bsc, it is resolved to enrich the existing curriculum by initiating a certificate course on "House hold electrical wiring" for the benefit of students in the academic year 2019-2020. A proposal seeking permission to start the course should be submitted to the Principal within two days.

course duration	:	40 days
student intake	:	20 to 30
Name of Faculty	:	K. Durga Rao Lect in Physics
Formative assessment	:	15 marks (Objective type)
Summative assessment	:	25 marks (Objective type)
Qualifying mark	:	15
Minimum attendance for summative assessment	:	75%

## Staff:

- 1) K. Durga Rao
- 2) N. Sankar
- 3) P. Sankar
- 4) P. Sankar
- 5) N. Sankar

  
 Department of Physics  
 S.Ch.V.P.M.R. Govt. Degree College  
 GANAPAVARAM-534198.

## Students:

- 1) P. Sankar
- 2) T. Rama Devi
- 3) S. Sankar
- 4) P. Sankar
- 5) K. Nithila



**SRI CHINTALAPATI VARA PRASADA MURTHY RAJU**  
**GOVERNMENT DEGREE COLLEGE**

GANAPAVARAM-534 198

ESTD. 1972 • AFFILIATED TO ADIKAVI NANNAYA UNIVERSITY • ACCREDITED NAAC 'B'



Date. 27-9-2019

From  
P. Madhu Raju  
In-charge, Dept. of Physics  
SCHVPMR Govt. Degree College  
Ganapavaram  
To  
The Principal  
SCHVPMR Govt. Degree College  
Ganapavaram

  
27/9/19

Sub: Curriculum Enrichment for 2019-20- Dept. of Physics - proposal for starting a  
Certificate Course in House Hold Electrical Wiring; Request for permission -  
Reg.

This is to submit that the Dept. of Physics is proposing to start a Certificate Course in House Hold Electrical wiring during the academic year 2019-20 so as to enrich the existing curriculum for the benefit of the students. Hence, this proposal is submitted seeking your permission.

Course duration:	40 days
Student intake:	20 to 30
Name of Faculty:	K. Durga Rao
Formative Assessment	15 marks (objective type)
Summative Assessment	25 marks (objective type)
Qualifying mark	15

Objectives: (1) To enrich the curriculum for the development of students  
(2) To Understand electrical safety, electrical circuit design and planning, Installations Techniques, Wiring system troubleshooting,

  
In-charge, Dept. of Physics

Department of Physics  
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Proceedings of the Principal (FAC), SCHVPMR Govt. Degree College, Ganapavaram

*Present: Sri P. Madhu Raju., M.Sc., M.Phil.,*

Rc.No.19/3/CC-19-20

Dated :28-9-2019

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Sub: Dept. of Physics - Proposal for Certificate Course in House Hold Electrical wiring - 2019-20 -Permission granted - Orders issued - Reg.

The Principal, SCHVPMR Govt. Degree College, Ganapavaram is pleased to grant permission to launch a certificate course in House Hold Electrical Wiring by the Department of Physics during the academic year 2019-20 The In-charge, Department of Physics is requested to follow the due procedure for conducting the said course and submit a report thereof.

  
PRINCIPAL

PRINCIPAL (F.A.C)  
S.CH.V.P.M.R. Govt. Degree College  
Accredited 'B' by NAAC  
GANAPAVARAM (W.G.Dt.,)

## Circular - 1

Date: 1-10-2019

All the students of Bisc (MPC & MPCs) are informed that the department of Physics of our college is going to start a certificate course in 'House hold electrical wiring' from 5-10-2019 to 30-11-2019 (40 days duration)

Hence you are suggested to enroll for the course and make use of it. Enrollment forms are available in the department. A copy of syllabus is enclosed herewith. Hence the students who are interested to register their names, can contact K. Durga Rao Lecturer in Physics

Design of the course:

Course Name: "House hold electrical wiring"

Duration: 40 days

Intake: 20-30

Course start Date: 5-10-2019, Time: 4:30 to 5:30 PM

Formative Assessment: 15 marks (MCA)

Summative Assessment: 25 marks (MCA)

at the end of the course

Qualifying mark: 15

- Note: \*
- \* 75% of attendance is mandatory to give the final test.
  - \* Eligible candidates will be given Course Completion Certificate with grade.

K. Durga Rao  
Course Coordinator

Department of Physics  
S.Ch.V.P.M.R. Govt. Degree College  
GANAPAVARAM-534198.

III BSc MPC & MPCs

II BSc MPC & MPCs

I BSc MPC & MPCs

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**S Ch V P M R GOVERNMENT DEGREE COLLEGE,**  
**GANAPAVARAM**  
**DEPARTMENT OF PHYSICS**  
**SYLLABUS FOR CERTIFICATE COURSE**  
**HOUSE HOLD ELECTRICAL WIRING**  
**for the academic year 2019-20**

**UNIT-I DOMESTIC WIRING (15hr)**

Various types of house wiring and basic requirement of various utilities, estimate and format of estimation, Materials and accessories used in domestic wiring and their cost, types of loads and sub circuits, Types of service mains Design of number of sub circuits and distribution boards ,preparation of wiring installation plan layout with light load, power load and control point.

**UNIT-II MAIN MAINTENANCE (10Hr)**

Selection of main switch cable, based on the load in circuit/sub circuits. Calculation of length of wiring cable and labor charges. Preparation of detailed estimate in standard Proforma. Estimation of wiring of small residential building, offices and Commercial establishments like shops, sales counter, stores.

**UNIT-III POWER WIRING (10hr)**

Discussion on various loads and wiring methods circuits and in small industries agriculture etc., materials and accessories used in motor installation and their cost. Designing of distribution boards, cable, motor control panel.

**UNIT-IV WIRE INSTALLATION (10Hr)**

Preparation of wiring installation plan and single line diagram, calculation of length of wiring cable and labor charges detailed estimate in the standard Proforma Related problems on installation of motors for small workshops and irrigation pump sets.

Books: 1. Electrical Technology, chand publishers,  
New Dehli-B.L.Theraja.

2. Electrical Technology, ELBS Publications - Edward. 3. D.C Fundamentals, Delman Publications - Loper

4. A.C Fundamentals, Delman PublicLoper

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**SRI CHINTALAPATI VARA PRASADA MURTHY RAJU**  
**GOVERNMENT DEGREE COLLEGE**

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## Department of PHYSICS

### Certificate Course on "HOUSE HOLD ELECTRICAL WIRING"

#### Course Outline

Course Duration	30 to 40 days
Course Fee	Nil
Target Group	BSC
Student intake	20 to 30 (First Come-First Serve)
Start Date	05-10-2019
No. of Modules	4
Formative Assessment	15 marks (objective type)
Summative Assessment	25 marks (objective type)
Qualifying Mark	15
Name of the Course Coordinator	K.Durga Rao

#### Student Registration Form

Date: 1-10-2019

Name of the Student : K. Lakshmi Srevani  
Admission Number : 6409  
Batch : III  
Year and Program studying : 2019-2020  
Semester : V

K. Lakshmi Srevani  
Signature of the Student

K. Durga Rao  
Signature of the Course Coordinator

Department of Physics  
S.Ch.V.P.M.R. Govt. Degree College  
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GOVERNMENT DEGREE COLLEGE

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## Department of PHYSICS

### Certificate Course on "HOUSE HOLD ELECTRICAL WIRING"

#### Course Outline

Course Duration	30 to 40 days
Course Fee	Nil
Target Group	BSC
Student intake	20 to 30 (First Come-First Serve)
Start Date	05-10-2019
No. of Modules	4
Formative Assessment	15 marks (objective type)
Summative Assessment	25 marks (objective type)
Qualifying Mark	15
Name of the Course Coordinator	K.Durga Rao

#### Student Registration Form

Date: 1-10-2019

Name of the Student : A. Suneel babu  
Admission Number : 6413  
Batch : III  
Year and Program studying : 2019-2020  
Semester : V

A. suneel babu  
Signature of the Student

K. Durga Rao.  
Signature of the Course Coordinator

Department of Physics  
S.Ch.V.P.M.R. Govt. Degree College  
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SRI CHINTALAPATI VARA PRASADA MURTHY RAJU  
GOVERNMENT DEGREE COLLEGE

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**Department Of PHYSICS**  
**Certificate Course on HOUSE Hold ELECTRICAL Wiring**  
**2019-20**

**List of Students Enrolled**

S. NO.	Adm NO	CLASS	STUDENTNAME	STUDENTSIGNATURE
1	6490	III B Sc MPCs	BALAM DHANESH	B. Dhanesh
2	6452	III B Sc MPCs	ELIPE MOUNIKA	E. Mounika
3	6428	III B Sc MPCs	P L DURGA BHAVANI	P.L. D Bhavani
4	6459	III B Sc MPCs	B SRIRAM	B. Sri Ram
5	6409	III B Sc MPCs	K LAKSHMI SRAVANI	K. Lakshmi sravani
6	6406	III B Sc MPCs	K NIKHILA	K. Nikhila
7	6463	III B Sc MPCs	E SURYA SAGAR	E. Surya sagar.
8	6431	III B Sc MPCs	K ROSHINI	K. Roshini
9	6410	III B Sc MPCs	K H N D VENKATA LAKSHMI	K.H.N.D. Venkata Lakshmi
10	6491	III B Sc MPCs	P LAKSHMI LAVANYA	P. Lakshmi lavanya
11	6430	III B Sc MPCs	J ASHA DEEPIKA	J.A. Deepika
12	6407	III B Sc MPCs	K NAVEENA SUMA DEVI	K-Naveena sum a Devi
13	6411	III B Sc MPCs	P RAMESH	P. Ramesh.
14	6535	III B Sc MPCs	V S T R S S S C GUPTA	VSTRSSC GUPTA
15	6507	III B Sc MPCs	T RAMYA DEVI	T. Ramya devi
16	6402	III B Sc MPC	N POORNA DURGA	N. POORNA. DURGA
17	6464	III B Sc MPC	K SATYAVANI	K. Satyavani
18	6444	III B Sc MPC	N VIJAYA KRISHNA	N. Vijaya Krishna
19	6425	III B Sc MPC	G CHANDRAKALA	G. Chandrakala



20	6423	III B Sc MPC	S SUNITHA	S. Sunitha
21	6422	III B Sc MPC	K JYOTHI BHAVANI	K. Jyothi Bhavani
22	6420	III B Sc MPC	K A S SWAMY	K A S swamy
23	6419	III B Sc MPC	P GOWRI SANKER	P. Gowri sankes
24	6413	III B Sc MPC	A SUNEEL BABU	A. Suneel babu
25	6505	III B Sc MPC	P SRIVALLIKA	P. SRI vallika
26	6453	III B Sc MPC	S CHANBASHA	S. chanbasha

  
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Date 25-10-2019

All the students are informed that Formative Assessment test in 'House hold electrical wiring' will be conducted on 1-11-2019. Attendance is must.

Syllabus is unit-I & unit-II in the prescribed syllabus.

unit-I Domestic wiring

unit-II Main maintenance.

I Bsc (MPC & MPY) All

II Bsc (MPC & MPY) All

III Bsc (MPC & MPY) Quinze

Durgakno  
Course Coordinator

Department of Physics  
S.Ch.V.P.M.R. Govt. Degree College  
GANAPAVARAM-534198.

Principal (F.A.C)  
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S Ch V P M R GOVERNMENT DEGREE COLLEGE  
GANAPAVARAM  
HOUSEHOLD ELECTRICAL WIRING  
Formative Test Question Paper  
for certificate course:2019-20

11  
15

Name: K. Lakshmi Sreerani

Class: III BSc MPCs

Admn No 6409

1. Which of the following is NOT a type of house wiring?  
a. Surface wiring  
b. Conduit wiring  
c. Submarine wiring  
d. Cleat wiring
2. What is the purpose of estimating the cost in domestic wiring?  
a. To determine the number of sub circuits  
b. To calculate the length of wiring cable  
c. To budget for materials and accessories  
d. To design the distribution boards
3. Which of the following is a material used in domestic wiring?  
a. Hammer  
b. Screwdriver  
c. Copper wire  
d. Paintbrush
4. What are the types of loads commonly found in domestic wiring?  
a. Resistive, inductive, and capacitive  
b. Single-phase and three-phase  
c. Lighting, heating, and ventilation  
d. Copper, aluminum, and steel
5. How do you design the number of sub circuits and distribution boards?  
a. By considering the size of the building  
b. By consulting an electrical engineer  
c. By estimating the cost of materials  
d. By selecting the main switch cable
6. The selection of the main switch cable is based on:  
a. The cost of materials  
b. The length of the wiring cable  
c. The load in circuit/sub circuits  
d. The type of loads in the building
7. How do you calculate the length of wiring cable and labor charges?  
a. Based on the number of sub circuits  
b. By consulting a professional electrician  
c. Using a standard Proforma  
d. By estimating the cost of materials

[c] ✓

[c] ✓

[B] X

[c] ✓

[A] ✓

[c] ✓

[A] X

6009

8. What is the purpose of preparing a detailed estimate in a standard Performa? [B] ✓
- a. To determine the size of the distribution boards
  - b. To calculate the labor charges
  - c. To budget for materials and accessories
  - d. To design the wiring installation plan
9. What is the main focus when estimating the wiring of small residential buildings? [C] ✓
- a. Selection of main switch cable
  - b. Calculation of labor charges
  - c. Estimation of materials cost
  - d. Designing the distribution boards
10. Which of the following is a commercial establishment where wiring may be required? [A] ✓
- a. Hospital
  - b. Park
  - c. Library
  - d. Lake
11. What are the various loads and wiring methods discussed in power wiring? [B] ✓
- a. Residential and commercial loads
  - b. Industrial and agricultural loads
  - c. Resistive and inductive loads
  - d. Lighting and heating loads
12. Which of the following is a material used in motor installation? [D] ✗
- a. Wooden planks
  - b. Plastic bottles
  - c. PVC pipes
  - d. Electric motors
13. What is the purpose of designing distribution boards in power wiring? [C] ✓
- a. To select the main switch cable
  - b. To calculate labor charges
  - c. To distribute power to different loads
  - d. To estimate the cost of materials
14. What is a motor control panel used for in power wiring? [A] ✓
- a. Controlling the speed of motors
  - b. Distributing power to different circuits
  - c. Estimating the cost of motor installation
  - d. Protecting motors from electrical faults
15. The selection of the main switch cable is based on: [A] ✗
- a. The cost of materials
  - b. The length of the wiring cable
  - c. The load in circuit/sub circuits
  - d. The type of loads in the building

S Ch V P M R GOVERNMENT DEGREE COLLEGE

GANAPAVARAM  
HOUSEHOLD ELECTRICAL WIRING

Formative Test Question Paper  
for certificate course:2019-20

12  
15

Name: A. suneel babu

Class: III BSC MPC

Admn No 6413

1. Which of the following is NOT a type of house wiring?

- a. Surface wiring
- b. Conduit wiring
- c. Submarine wiring
- d. Cleat wiring

[c] ✓

2. What is the purpose of estimating the cost in domestic wiring?

- a. To determine the number of sub circuits
- b. To calculate the length of wiring cable
- c. To budget for materials and accessories
- d. To design the distribution boards

[c] ✓

3. Which of the following is a material used in domestic wiring?

- a. Hammer
- b. Screwdriver
- c. Copper wire
- d. Paintbrush

[C] ✓

4. What are the types of loads commonly found in domestic wiring?

- a. Resistive, inductive, and capacitive
- b. Single-phase and three-phase
- c. Lighting, heating, and ventilation
- d. Copper, aluminum, and steel

[B] ✗

5. How do you design the number of sub circuits and distribution boards?

- a. By considering the size of the building
- b. By consulting an electrical engineer
- c. By estimating the cost of materials
- d. By selecting the main switch cable

[A] ✓

6. The selection of the main switch cable is based on:

- a. The cost of materials
- b. The length of the wiring cable
- c. The load in circuit/sub circuits
- d. The type of loads in the building

[C] ✓

7. How do you calculate the length of wiring cable and labor charges?

- a. Based on the number of sub circuits
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- c. Using a standard Proforma
- d. By estimating the cost of materials

[A] ✗

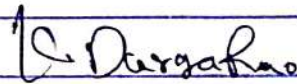
8. What is the purpose of preparing a detailed estimate in a standard Performa? [D] ✓
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  - b. To calculate the labor charges
  - c. To budget for materials and accessories
  - d. To design the wiring installation plan
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  - c. Estimation of materials cost
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  - c. Library
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  - d. Electric motors
13. What is the purpose of designing distribution boards in power wiring? [C] ✓
- a. To select the main switch cable
  - b. To calculate labor charges
  - c. To distribute power to different loads
  - d. To estimate the cost of materials
14. What is a motor control panel used for in power wiring? [B] ✗
- a. Controlling the speed of motors
  - b. Distributing power to different circuits
  - c. Estimating the cost of motor installation
  - d. Protecting motors from electrical faults
15. The selection of the main switch cable is based on: [C] ✓
- a. The cost of materials
  - b. The length of the wiring cable
  - c. The load in circuit/sub circuits
  - d. The type of loads in the building

Circular 27-111


Date 25-11-2019

Dear students,

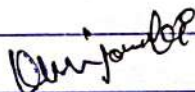
Instruction for certificate course on 'House hold electrical wiring' - summative test will be conducted on 2-12-2019 covering the entire syllabus ie Domestic wiring, Main maintenance, Power wiring and wire insulation. It is informed that students with less than 75% of attendance will not be allowed to write the exam. The qualifying mark will be 15 M




Course Coordinator,  
Department of Physics  
S.Ch.V.P.M.R. Govt. Degree College  
GANAPAVARAM-534198.

Bsc 

Bi Bsc 

Ph Bsc 

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Accredited "B" by NAAC  
GANAPAVARAM (W.G.Dt.,)

30. November  
2019

### Pupils Attendance Register

### పిల్లల హాజరుపట్టి

గోదారి పండ్ల  
పాఠశాల

6490

1	2	3	4	5													6		7	8	9																		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	హాజరు దినములు	మొత్తం దినములు
6490	1	B. Dhanesh		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	21	34	85	B. Dhanesh	
6452	2	E. Mounika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22	34	85	E. Mounika	
6428	3	P.L. Durga Bhavani		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	35	81	P.L. D. Bhavani	
6459	4	B. Sivaram		A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	24	36	90	B. Sivaram	
6409	5	L. Lakshmi Sivarani		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	36	90	L. Lakshmi Sivarani	
6406	6	K. Nikhila		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	36	90	K. Nikhila	
6463	7	E. Surya Sagar		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	24	36	90	E. Surya Sagar	
6431	8	K. Roshini		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	36	90	K. Roshini	
6410	9	KHN.D Venkata Kshmi		A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22	35	81	KHN.D. Venkata Kshmi	
6491	10	P. Lakshmi Lavanya		A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	24	36	90	P. Lakshmi Lavanya	
6430	11	J. Asha Deepika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	35	87	J. Asha Deepika	
6407	12	K. Navarena Suma Devi		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	35	87	K. Navarena Suma Devi	
6411	13	P. Ramesh		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	35	87	P. Ramesh	
6535	14	VSTRSS Chandu Gupta		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22	35	87	VSTRSS Chandu Gupta	
6507	15	T. Ramya Devi		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22	35	87	T. Ramya Devi		
6402	16	N. Poorna Durga		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	24	37	92	N. Poorna Durga		
6464	17	K. Satyavani		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	36	90	K. Satyavani	
6484	18	N. Vijaya Krishna		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	25	37	92	N. Vijaya Krishna	
6425	19	G. Chandrakala		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	36	90	G. Chandrakala	
6433	20	S. Sumitha		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	35	90	S. Sumitha	
6422	21	K. Jyothi Bhavani		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22	35	87	K. Jyothi Bhavani		
6420	22	K.A. Satyanarayana Sunbhy		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	36	90	K.A. Satya narayan		
6419	23	P. Gowri sanket		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	36	90	P. Gowri sanket		
6413	24	A. Suneel Babu		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23	36	90	A. Suneel babu		
6505	25	P. Srivallika		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22	35	87	P. Srivallika		
6453	26	S. Chanbasha		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22	36	90	S. Chanbasha		

పాఠశాల పరిషత్ గవర్నరు  
 S. CH. V. R. S. G. W. T. Degree C  
 Approved by NAAC  
 GRIPATNAM (W.G. DL.)  
 2015 డిసెంబరు  
 2015 మార్చి



S Ch V P M R GOVERNMENT DEGREE COLLEGE  
GANAPAVARAM  
HOUSEHOLD ELECTRICAL WIRING  
Summative Test Question Paper  
for certificate course:2019-20

17  
25

Name: K. Lakshmi, Sravan

Class: III BSc MPCs

Admn No 6409.

1. Which of the following is a material used in motor installation? [B] X
  - a. Wooden planks
  - b. Plastic bottles
  - c. PVC pipes
2. What is the purpose of designing distribution boards in power wiring? [C] ✓
  - a. To select the main switch cable
  - b. To calculate labor charges
  - c. To distribute power to different loads
3. What is a motor control panel used for in power wiring? [A] ✓
  - a. Controlling the speed of motors
  - b. Distributing power to different circuits
  - c. Estimating the cost of motor installation
4. How do you prepare a wiring installation plan and single line diagram? [B] X
  - a. By estimating the cost of materials
  - b. By calculating the length of wiring cable
  - c. By consulting an electrical engineer
5. What is the purpose of calculating the length of wiring cable and labor charges in wire installation? [A] ✓
  - a. To estimate the cost of materials
  - b. To design the distribution boards
  - c. To determine the size of the wiring installation plan
6. What is a detailed estimate in the standard Proforma used for in wire installation? [B] X
  - a. Estimating the cost of motor installation
  - b. Calculating labor charges
  - c. Planning the distribution of power to different loads
7. Which of the following is a related problem during the installation of motors for small workshops? [B] X
  - a. Estimating the cost of materials
  - b. Selecting the main switch cable
  - c. Calculating the length of wiring cable
8. Various Types of House Wiring [B] ✓
  - a. Concealed conduit wiring
  - b. Surface conduit wiring
  - c. Cleat wiring

9. Basic Requirements of Various Utilities: [B] ✓

- a. Electrical power supply
- b. Lighting points
- c. Fan points

10. Estimate and Format of Estimation [C] ✓

- a. Calculation of material requirements
- b. Determining labor charges
- c. Estimation format for domestic wiring

11. Materials and Accessories Used in Domestic Wiring and Their Cost: [A] ✓

- a. Types of cables and wires
- b. Switches, sockets, and regulators
- c. Distribution boards and circuit breakers

12. Types of Loads and Sub Circuits: [C] ✓

- a. Lighting loads
- b. Power loads
- c. Control loads

13. Types of Service Mains: [B] ✓

- a. Single-phase service mains
- b. Three-phase service mains
- c. Design considerations for service mains

14. Design of Number of Sub Circuits and Distribution Boards: [A] ✓

- a. Load distribution among sub circuits
- b. Selection and installation of distribution boards

15. Preparation of Wiring Installation Plan Layout: [C] ✓

- a. Determining the placement of light loads, power loads, and control points
- b. Creating a layout plan for efficient wiring installation
- c. Calculating labor charges

16. Selection of Main Switch Cable: [B] ✓

- a. Calculating the load in the circuit/sub circuits
- b. Choosing the appropriate cable size based on the load
- c. Calculating labor charges

17. Calculation of Length of Wiring Cable and Labor Charges: [A] ✓

- a. Measuring the length of cable required for wiring installation
- b. Determining the labor charges for the installation
- c. Calculating labor charges

18. Preparation of Detailed Estimate in Standard Proforma:

- a. Creating a comprehensive estimate for wiring installation [C] X
- b. Using a standard proforma for accurate estimation
- c. Design considerations for service mains

18. Estimation of Wiring for Small Residential Buildings, Offices, and Commercial Establishments:

- a. Estimating the wiring requirements for residential buildings
- b. Estimating the wiring requirements for offices and commercial establishments

c. Design considerations for service mains

19. Discussion on Various Loads and Wiring Methods:

[B] X

- a. Power wiring for small industries
- b. Power wiring for agriculture applications
- c. Different wiring methods and their applications

20. Materials and Accessories Used in Motor Installation and Their Cost:

[A] ✓

- a. Types of motors and their requirements
- b. Motor control panels and accessories
- c. Cost considerations for motor installations

21. Designing of Distribution Boards, Cable, and Motor Control Panel:

[B] ✓

- a. Design considerations for distribution boards
- b. Selection of cables for power wiring
- c. Designing motor control panels

22. Preparation of Wiring Installation Plan and Single Line Diagram:

[A] ✓

- a. Creating a detailed plan for wire installation
- b. Drawing a single line diagram for easy understanding

23. Calculation of Length of Wiring Cable and Labor Charges:

[B] ✓

- a. Determining the length of cable required for wire installation
- b. Estimating the labor charges for wire installation

24. Detailed Estimate in the Standard Proforma:

- a. Creating a comprehensive estimate for wire installation
- b. Using a standard proforma for accurate estimation

[B] X

25. How do you calculate the length of wiring cable and labor charges?

[C] X

- a. Based on the number of sub circuits
- b. By consulting a professional electrician
- c. Using a standard Proforma

S Ch V P M R GOVERNMENT DEGREE COLLEGE  
GANAPAVARAM  
HOUSEHOLD ELECTRICAL WIRING  
Summative Test Question Paper  
for certificate course:2019-20

19  
25

Name: A. Suneel babu

Class: III BSC [MPC]

Admn No 6413

1. Which of the following is a material used in motor installation? [C] ✓
  - a. Wooden planks
  - b. Plastic bottles
  - c. PVC pipes
  
2. What is the purpose of designing distribution boards in power wiring? [C] ✓
  - a. To select the main switch cable
  - b. To calculate labor charges
  - c. To distribute power to different loads
  
3. What is a motor control panel used for in power wiring? [B] ✗
  - a. Controlling the speed of motors
  - b. Distributing power to different circuits
  - c. Estimating the cost of motor installation
  
4. How do you prepare a wiring installation plan and single line diagram? [C] ✓
  - a. By estimating the cost of materials
  - b. By calculating the length of wiring cable
  - c. By consulting an electrical engineer
  
5. What is the purpose of calculating the length of wiring cable and labor charges in wire installation? [C] ✗
  - a. To estimate the cost of materials
  - b. To design the distribution boards
  - c. To determine the size of the wiring installation plan
  
6. What is a detailed estimate in the standard Proforma used for in wire installation? [C] ✗
  - a. Estimating the cost of motor installation
  - b. Calculating labor charges
  - c. Planning the distribution of power to different loads
  
7. Which of the following is a related problem during the installation of motors for small workshops? [A] ✗
  - a. Estimating the cost of materials
  - b. Selecting the main switch cable
  - c. Calculating the length of wiring cable
  
8. Various Types of House Wiring [A] ✓
  - a. Concealed conduit wiring
  - b. Surface conduit wiring
  - c. Cleat wiring

6/12

- 9. Basic Requirements of Various Utilities: [C] ✓
  - a. Electrical power supply
  - b. Lighting points
  - c. Fan points
- 10. Estimate and Format of Estimation [B] ✓
  - a. Calculation of material requirements
  - b. Determining labor charges
  - c. Estimation format for domestic wiring
- 11. Materials and Accessories Used in Domestic Wiring and Their Cost: [A] ✓
  - a. Types of cables and wires
  - b. Switches, sockets, and regulators
  - c. Distribution boards and circuit breakers
- 12. Types of Loads and Sub Circuits: [A] ✓
  - a. Lighting loads
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- 14. Design of Number of Sub Circuits and Distribution Boards: [B] ✓
  - a. Load distribution among sub circuits
  - b. Selection and installation of distribution boards
- 15. Preparation of Wiring Installation Plan Layout: [C] ✓
  - a. Determining the placement of light loads, power loads, and control points
  - b. Creating a layout plan for efficient wiring installation
  - c. Calculating labor charges
- 16. Selection of Main Switch Cable: [A] ✓
  - a. Calculating the load in the circuit/sub circuits
  - b. Choosing the appropriate cable size based on the load
  - c. Calculating labor charges
- 17. Calculation of Length of Wiring Cable and Labor Charges: [A] ✓
  - a. Measuring the length of cable required for wiring installation
  - b. Determining the labor charges for the installation
  - c. Calculating labor charges
- 18. Preparation of Detailed Estimate in Standard Proforma:
  - a. Creating a comprehensive estimate for wiring installation [B] ✗
  - b. Using a standard proforma for accurate estimation
  - c. Design considerations for service mains
- 18. Estimation of Wiring for Small Residential Buildings, Offices, and Commercial Establishments:
  - a. Estimating the wiring requirements for residential buildings
  - b. Estimating the wiring requirements for offices and commercial establishments

c. Design considerations for service mains

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- a. Power wiring for small industries
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- a. Types of motors and their requirements
- b. Motor control panels and accessories
- c. Cost considerations for motor installations

21. Designing of Distribution Boards, Cable, and Motor Control Panel: [C] ✓

- a. Design considerations for distribution boards
- b. Selection of cables for power wiring
- c. Designing motor control panels

22. Preparation of Wiring Installation Plan and Single Line Diagram: [B] ✓

- a. Creating a detailed plan for wire installation
- b. Drawing a single line diagram for easy understanding

23. Calculation of Length of Wiring Cable and Labor Charges: [C] ✓

- a. Determining the length of cable required for wire installation
- b. Estimating the labor charges for wire installation

24. Detailed Estimate in the Standard Proforma: [A] ✓

- a. Creating a comprehensive estimate for wire installation
- b. Using a standard proforma for accurate estimation

25. How do you calculate the length of wiring cable and labor charges? [A] ✓

- a. Based on the number of sub circuits
- b. By consulting a professional electrician
- c. Using a standard Proforma



SRI CHINTALAPATI VARA PRASADA MURTHY RAJU  
GOVERNMENT DEGREE COLLEGE

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(Affiliated to Adikavi Nannaya University, Rajamahendravaram, A.P.)

Department of PHYSICS  
Certificate course on "House Hold Electrical wiring"  
Academic Year: 2019-20  
RESULT SHEET

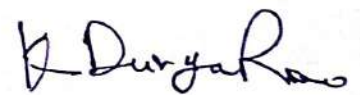
Sl.No.	Admn.No.	Class	Name of the Student	FA	SA	Total	Grade	Sign of Student
				Marks	Marks			
				15	25	40		
1	6490	III B Sc MPCs	BALAM DHANESH	14	20	34	A	B. Dhanesh
2	6452	III B Sc MPCs	ELIPE MOUNIKA	13	20	33	A	E. Mounika
3	6428	III B Sc MPCs	P LAKSHMI DURGA BHAVANI	09	11	20	C	P. L. D Bhavani
4	6459	III B Sc MPCs	B SRIRAM	11	19	39	A	B. Sri ram
5	6409	III B Sc MPCs	K LAKSHMI SRAVANI	11	17	28	B	K. lakshmi sravani
6	6406	III B Sc MPCs	K NIKHILA	11	16	27	B	K. Nikhila
7	6463	III B Sc MPCs	E SURYA SAGAR	13	19	32	A	E. surya Sagar
8	6431	III B Sc MPCs	K ROSHINI	10	20	30	A	K. Roshini
9	6410	III B Sc MPCs	K H N DURGA VENKATA LAKSHMI	10	20	30	A	K.H.N.D. Venkata lakshmi
10	6491	III B Sc MPCs	P LAKSHMI LAVANYA	11	20	31	A	P. lakshmi lavanya
11	6430	III B Sc MPCs	J ASHA DEEPIKA	09	18	27	B	J.A. Deepika
12	6407	III B Sc MPCs	K NAVEENA SUMA DEVI	10	22	32	A	K. Navvena Suma Devi
13	6411	III B Sc MPCs	P RAMESH	10	19	29	B	P. Ramesh.
14	6535	III B Sc MPCs	V S T R S S CHANDU GUPTA	13	22	35	A	VSTRSS Chandu Gupta

15	6507	III B Sc MPCs	T RAMYA DEVI	13	20	33	A	T. Ramya devi
16	6402	III B Sc MPC	N POORNA DURGA	12	20	32	A	N. POORNA DURGA
17	6464	III B Sc MPC	K SATYAVANI	12	18	30	A	k. Satyavani
18	6444	III B Sc MPC	N VIJAYA KRISHNA	11	20	31	A	N. Vijaya Krishna
19	6425	III B Sc MPC	G CHANDRAKALA	13	21	34	A	G. Chandrakala
20	6423	III B Sc MPC	S SUNITHA	10	19	29	B	S. Sunitha
21	6422	III B Sc MPC	K JYOTHI BHAVANI	13	20	33	A	K. Jyothi BHAVANI
22	6420	III B Sc MPC	K A SATYANARAYANA SWAMY	13	19	32	A	KA satyanarayana swamy
23	6419	III B Sc MPC	P GOWRI SANKER	13	17	30	A	P. Gowri sankey
24	6413	III B Sc MPC	A SUNEEL BABU	12	19	31	A	A. suned babu
25	6505	III B Sc MPC	P SRIVALLIKA	12	22	34	A	P. SRIVALLIKA
26	6453	III B Sc MPC	S CHANBASHA	10	19	29	B	s. chanbasha

Grade:  $\geq 30$  - A,  $\geq 24$  - B,  $\geq 20$  - C,  $\geq 15$  - D,  $< 15$  - F



PRINCIPAL (F.A.C)  
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K Durga Rao Rao  
Course Coordinator

Department of Physics  
S.Ch.V.P.M.R. Govt. Degree College  
GANAPAVARAM-534198.





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**GOVERNMENT DEGREE COLLEGE**

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## Report

The Certificate Course on Household Electrical Wiring offered by the Department of Physics, S Ch V P M R Government Degree College, Ganapavaram was conducted from 05-10-2019 to 30-11-2019 with a batch of 26 students and 26 students successfully completed the course. The students gained knowledge for effectively wiring residential buildings, offices, and small commercial establishments. The course syllabus covered three modules, each focusing on different aspects of wiring residential buildings, offices, and small commercial establishments.

### Learning Outcomes;

- The students gained a comprehensive understanding of domestic wiring techniques, estimation methods, selection of appropriate materials, and the design of distribution boards and motor control panels.
- They acquired practical skills in preparing wiring installation plans, calculating cable lengths, and estimating labor charges for wiring projects in various settings.

K DURGARAO

Course Coordinator

**Department of Physics**  
**S.Ch.V.P.M.R. Govt. Degree College**  
**GANAPAVARAM-534198.**

**PRINCIPAL (F.A.C)**  
**S.CH.V.P.M.R. Govt. Degree College**  
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### CERTIFICATE

This is to certify that

**KUM. K LAKSHMI SRAVANI , III BSC,MPCs(Admission No:6409)**

**SCHVPMR Govt Degree College, Ganapavaram**

has successfully completed certificate course on

“House Hold Electrical wiring” held from 5 OCT,2019 – 30 NOV, 2019

offered by Department of Physics with grade “B”

K Durga Rao  
Course Coordinator

  
Dr.M.Syam Bab  
Principal



**SRI CHINTALAPATI VARA PRASADA MURTHY RAJU**  
**GOVERNMENT DEGREE COLLEGE**

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## CERTIFICATE

This is to certify that

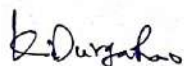
**MR A SUNIL BABU, III BSC,MPC(Admission No:6413)**

**SCHVPMR Govt Degree College, Ganapavaram**


has successfully completed certificate course on

“House Hold Electrical wiring” held from 5 OCT,2019 – 30 NOV, 2019

offered by Department of Physics with grade “A”



K Durga Rao  
Course Coordinator

  
Dr. M. Syam Bab  
Principal