

Department of Physics
REPORT ON CERTIFICATE COURSE

Academic year 2021-2022

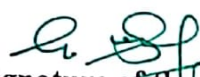
1. Name of the Course : "Skill Enhancement of Electrical and Electronics Appliances"
2. Department : Physics
3. Duration : No. of hours, 30 No. of days: 30
4. Number of Students Enrolled : 34
5. Whether list of students enclosed : Yes
6. Brief Report :

The course is specially designed to enhance the understanding of students about Skill enhancement of Electrical and Electronics Appliances, which is very use full in our day to day life. It will help students understand mechanisms of Electrical and Electronics Appliances, developing an understanding of different types of Electrical instruments, their uses and constructions of devices like making of regulated power supply. The course was conducted for 30 hours (2 credits) from 18.04.2022 to 25.05.2022.

7. Outcome :

Around 34 students of Physical Science (MPCs and MPC) students participated in this course. The faculty from Departments of Physics participated and enlightened the students on uses and construction of various Electrical and Electronics instruments. Group Discussions and seminars and slip tests were organized and conducted to promote participatory learning. By the end of the course students will be able to understand the importance, develop the skills and construction of Electrical and Electronics Appliances.


Signature of the In-charge


Signature of the Principal
PRINCIPAL
VIVEKANANDA GOVT. DEGREE COLLEGE
Vidyanagar, Hyderabad-44

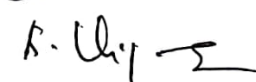
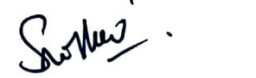
Notice

The Department of Physics is offering a certificate course in “ **Skill enhancement of Electrical and electronics appliances**” for all B.Sc I and II year students of physics. Students are hereby informed to register for the courses on or before 15.03.2022 at the department of physics.

Duration of the course: **30 hours (2 credits)**

No of seats : **30**

Note: Seat will be filled on first come first serve basis.

1. 
2. 
3. 


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REGISTRATION FORM

Affix recent
passport size
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1. NAME: _____
2. YEAR : _____
3. GROUP : _____
4. H.T NO.: _____
5. QUALIFICATION: _____
6. ORGANIZATION: _____
- 7 .DATE OF BIRTH: (dd/mm/yy) _____
8. ADDRESS: _____
9. CONTACT NO: _____
10. E-MAIL: _____
11. OTHERS (if any) _____

Signature of the Candidate

[Handwritten Signature]

S. U. 1 - 2

[Handwritten Signature]

[Handwritten Signature] **PRINCIPAL**
DEGREE COLLEGE

VIVEKANANDA GOVERNMENT DEGREE COLLEGE
VIDYANAGAR HYDERABAD - 44
DEPARTMENT OF PHYSICS

CERTIFICATE COURSE

2021-2022 (CBCS)

SKILL ENHANCEMENT OF ELECTRICAL AND ELECTRONICS APPLIANCES

[30 HOURS]

[2 CREDITS]

The aim of this course is

- 1) To enable the students to familiar and experience with various Electrical and Electronics appliances .
- 2) To enable the students to do minor repairs of the instruments.
- 3) To know the basic mechanics of various Electrical and Electronics appliances

UNIT I

ELECTRICAL INSTRUMENTS :

Resistance - capacitance - inductance and its units - Transformers - Electrical charge - current - potential - units and measuring meters - Ohm's law - Galvanometer, ammeter, voltmeter and multimeter. Electrical energy - power - watt - kWh - consumption of electrical power.

ELECTRICAL AND ELECTRONIC SKILL:

Use of Multimeter . soldering of electrical circuits having discrete components (R,L,C,diode) and ICs on PCB . Operation of oscilloscope . Making regulated Power supply

UNIT II

ELECTRICAL APPLIANCES

AC and Dc - Single phase and three phase connections - RMS and peak values, House wiring - Star and delta connection - overloading - earthing - short circuiting - Fuses - colour code for insulation wires - Inverter - UPS - generator and motor - circuit breaker. Electrical switches.

ELECTRONICS APPLIANCES

Introduction to Semiconductor diode - transistor - LED - LCD - Photo diode - Photo transistor - their uses. Diode rectifiers - half wave and full wave - regulated power supply TV receivers (qualitative study only) - TV antenna's - Dish antenna

Books for Study:

1. A text book in Electrical Technology - BL Theraja, S Chand & Co.
2. A text book of Electrical technology - A K Theraja
3. Performance and design of Ac machines - M G Say ELBS Edn.
4. Semi conductor physics and opto electronics by P K Palanichamy
5. Basic Electronics - B L Theraja - S Chand & Co.
6. Principles of Communication Engineering - Arokh Singh and A K Chhabra - S Chand & Co.

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MINUTES OF THE MEETING

The following resolutions are taken in the meeting:-

- 1) The department of physics is established in the year 2018-2019.
- 2) After discussion of syllabus and examination pattern the BOS PHYSICS OU has approved the syllabus and scheme of examination of certificate course to be introduced in Vivekananda government degree college , Vidyanagar, Hyderabad.
- 3) It is resolved to conduct the examination internally as per approved pattern and the certificates may be given to passed out students.

Members:

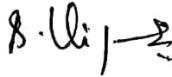
1) Dr. J. Chinna Babu 
Assistant Professor of Physics
VGDC, Vidyanagar, Hyderabad.

Prof. D. Ravinder

BOS IN PHYSICS
OSMANIA UNIVERSITY
HYDERABAD

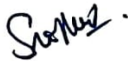
2) Ms. B. Vijaya Nirmala

Associate Professor of Physics
VGDC, Vidyanagar, Hyderabad.



3) Dr. S. Laxmi Srinivas Rao

Associate Professor of Physics
VGDC, Vidyanagar, Hyderabad




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VIDYANAGAR' HYDERABAD - 44
DEPARTMENT OF PHYSICS

CERTIFICATE COURSE
2021-2022 (CBCS)
SKILL ENHANCEMENT OF ELECTRICAL AND ELECTRONICS APPLIANCES
[30 HOURS] [2 CREDITS]

SCHEME OF EVALUATION

TIME DURATION = 1 ½ HOURS

MAXIMUM MARKS = 50

- Assignment = 10 marks
- Short answer type question (8 x 5 = 40 marks)

Answer any **Eight** questions , each question carries **FIVE** marks

UNIT I

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)

UNIT II

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)

Johny

P. V. S. S.
Srinivas



VIVEKANANDA GOVERNMENT DEGREE COLLEGE

Vidyanagar, Hyderabad - 500 044. Telangana.

Accredited by NAAC with B Grade

CERTIFICATE

This is to certify that Mr./Ms. B. Raj Kumar Vanna Roll Number 124421468008 of

✓ B.Sc. MPC/MPS/MPCS, I/ II/ III Year has Successfully Completed the Certificate Course in Skill

Enhancement of Electrical and Electronic appliances held from 18/4/2022 to 25/5/2022

Organised by The Department of Physics for the academic year 2021 - 2022

F. B. S.
In- charge, Dept. Of Physics

P. S. S.
Principal

VIVEKANANDA GOVT. DEGREE COLLEGE
Vidyanagar, Hyderabad-44

PHYSICS DEPARTMENT

SKILL ENHANCEMENT OF ELECTRICAL AND ELECTRONICS APPLIANCES

2021 - 2022

S.NO	Roll No.	Name	18/4/2022	19/4/22	20/4/22
1.	124420468058	Kollati Sai Kiran	Sai	Sai	Sai
2	124421468084	Thyavala Vinay	Vinay	Vinay	Vinay
3.	124421468058	Nenavath. Hooralli	Hooralli	Hooralli	Hooralli
4.	124421468033	J. Praneth chaveth	chaveth	chaveth	chaveth
5.	124421468081	Sumaiya Begum	Sumaiya	Sumaiya	Sumaiya
6.	124421468057	Nagilla Samatha	N. Samatha	N. Samatha	N. Samatha
7.	124421468075	S. Hemalatha	S. Hemalatha	Hemalatha	Hemalatha
8.	124421468082	T. Saraswathi	T. Saraswathi	T. Saraswathi	T. Saraswathi
9.	124421468055	M. Surya Sai Kiran	Sai Kiran	Sai Kiran	Sai Kiran
10	124421468002	Aleshetty Raghu	A. Raghu	A. Raghu	A. Raghu
11	124421468043	K. Rani	K. Rani	K. Rani	K. Rani
12	124421468023	G. Raju	G. Raju	G. Raju	G. Raju
13	124421468029	G. Jayalaxmi	G. Jayalaxmi	G. Jayalaxmi	G. Jayalaxmi
14	124421468052	M. Manasa	Manasa	Manasa	Manasa
15	124421468054	M. Ashwini	Ashwini	Ashwini	Ashwini
16	124421468041	K. Muni Kumar goud	K. Muni Kumar	K. Muni Kumar	K. Muni Kumar
17	124421468089	V. Pavan Kumar	V. Pavan Kumar	V. Pavan Kumar	V. Pavan Kumar
18	124421468032	J. Keerthi	J. Keerthi	J. Keerthi	J. Keerthi
19	124421468090	V. Bhagya	V. Bhagya	V. Bhagya	V. Bhagya
20	124421468073	P. Nithin Kumar	Nithin	Nithin	Nithin
21	124421468074	P. Pavan Kumar	P. Pavan Kumar	P. Pavan Kumar	P. Pavan Kumar
22	124421468028	G. Manisha	G. Manisha	G. Manisha	G. Manisha
23.	124421468040	K. Maneesha	K. Maneesha	K. Maneesha	K. Maneesha
24.	124421468016	B. Keerthi	B. Keerthi	B. Keerthi	B. Keerthi
25.	124421468066	P. Naga Jyothi	P. Naga	P. Naga	P. Naga
26.	124421468049	M. Sneethi	Sneethi	Sneethi	Sneethi
27.	124421468078	S. Valsatesh	S. Valsatesh	S. Valsatesh	S. Valsatesh
28	124421468079	S. R. Mybu	S. R. Mybu	S. R. Mybu	S. R. Mybu
29	124421468018	C. Hari Rama Krishna	C. Hari	C. Hari	C. Hari
30	124421468076	S. Nandu	Nandu	Nandu	Nandu
31.	124421468020	Ch. Suresh	Ch. Suresh	Ch. Suresh	Ch. Suresh
32.	124421468009	B. Rajkumar varma.	B. Rajkumar	B. Rajkumar	B. Rajkumar
33.	124421468013	B. Ravi	B. Ravi	B. Ravi	B. Ravi
34.	124421468045	Ravi	Ravi	Ravi	Ravi

20/4/22	21/4/22	22/4/22	23/4/22	25/4/22	26/4/22	27/4/22
Qari	Qari	Qari	Qari	Qari	Qari	Qari
T.W	T.W	T.W	T.W	T.W	T.W	T.W
Heif	Heif	Heif	Heif	Heif	Heif	Heif
chuf	chuf	chuf	chuf	chuf	chuf	chuf
Sumaiya	Sumaiya	Sumaiya	Sumaiya	Sumaiya	Sumaiya	Sumaiya
N. Samatha	N. Samatha	N. Samatha	N. Samatha	N. Samatha	N. Samatha	N. Samatha
Hamalatta	Hamalatta	Hamalatta	Hamalatta	Hamalatta	Hamalatta	Hamalatta
T. Saralatti	T. Saralatti	T. Saralatti	T. Saralatti	T. Saralatti	T. Saralatti	T. Saralatti
Seeriy	Seeriy	Seeriy	Seeriy	Seeriy	Seeriy	Seeriy
A. Raghu	A. Raghu	A. Raghu	A. Raghu	A. Raghu	A. Raghu	A. Raghu
K. Rani	K. Rani	K. Rani	K. Rani	K. Rani	K. Rani	K. Rani
E. Raju	E. Raju	E. Raju	E. Raju	E. Raju	E. Raju	E. Raju
G. Jey	G. Jey	G. Jey	G. Jey	G. Jey	G. Jey	G. Jey
Manara	Manara	Manara	Manara	Manara	Manara	Manara
Ashuf	Ashuf	Ashuf	Ashuf	Ashuf	Ashuf	Ashuf
K. Muni Kumar	K. Muni Kumar	K. Muni Kumar	K. Muni Kumar	K. Muni Kumar	K. Muni Kumar	K. Muni Kumar
V. Ponan Kumar	V. Ponan Kumar	V. Ponan Kumar	V. Ponan Kumar	V. Ponan Kumar	V. Ponan Kumar	V. Ponan Kumar
T. Keerthi	T. Keerthi	T. Keerthi	T. Keerthi	T. Keerthi	T. Keerthi	T. Keerthi
V. Bhagya	V. Bhagya	V. Bhagya	V. Bhagya	V. Bhagya	V. Bhagya	V. Bhagya
Pamankun	Pamankun	Pamankun	Pamankun	Pamankun	Pamankun	Pamankun
G. Manisha	G. Manisha	G. Manisha	G. Manisha	G. Manisha	G. Manisha	G. Manisha
K. Maneesha	K. Maneesha	K. Maneesha	K. Maneesha	K. Maneesha	K. Maneesha	K. Maneesha
D. reereth	D. reereth	D. reereth	D. reereth	D. reereth	D. reereth	D. reereth
P. Nuf	P. Nuf	P. Nuf	P. Nuf	P. Nuf	P. Nuf	P. Nuf
Snehith	Snehith	Snehith	Snehith	Snehith	Snehith	Snehith
S. Jeyan	S. Jeyan	S. Jeyan	S. Jeyan	S. Jeyan	S. Jeyan	S. Jeyan
S. K. Mybu	S. K. Mybu	S. K. Mybu	S. K. Mybu	S. K. Mybu	S. K. Mybu	S. K. Mybu
Qari	Qari	Qari	Qari	Qari	Qari	Qari
Hand	Hand	Hand	Hand	Hand	Hand	Hand
Ch. Somesh	Ch. Somesh	Ch. Somesh	Ch. Somesh	Ch. Somesh	Ch. Somesh	Ch. Somesh
Raj	Raj	Raj	Raj	Raj	Raj	Raj
R. Wuf	R. Wuf	R. Wuf	R. Wuf	R. Wuf	R. Wuf	R. Wuf
Ram	Ram	Ram	Ram	Ram	Ram	Ram