

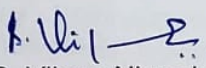
MINUTES OF THE MEETING

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.

- 
- 2) Ms. B. Vijaya Nirmala
Associate Professor of Physics
VGDC, Vidyanagar, Hyderabad.


Prof. D. Ravinder
BOS IN PHYSICS
OSMANIA UNIVERSITY
HYDERABAD
CHAIRMAN
Board of Studies in Physics
Osmania University, Hyd.


CHAIRMAN
Board of Studies in Physics
Osmania University, Hyd.

VIVEKANANDA GOVERNMENT DEGREE COLLEGE
VIDYANAGAR HYDERABAD - 44
DEPARTMENT OF PHYSICS

CERTIFICATE COURSE

2019-2020 (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 IC_s 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.

A. U. 1-2
[B. VIDYANIRMALA] (Dr. J. Chinnababu)



CHAIRMAN
Board of Studies in Physics

VIVEKANANDA GOVERNMENT DEGREE COLLEGE
VIDYANAGAR' HYDERABAD - 44
DEPARTMENT OF PHYSICS

CERTIFICATE COURSE

2019-2020 (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

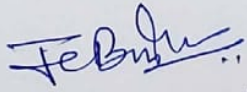
UNIT I

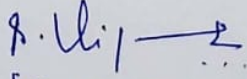
- 1)
- 2)
- 3)
- 4)
- 5)
- 6)

UNIT II

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


CHAIRMAN
Board of Studies in Physics
Osmania University, HYD.


(Dr. J. Chinna Babu)


[B. VIJAYA NIRMALA]

Department of Physics
REPORT ON CERTIFICATE COURSE
Academic year 2020-2021

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 : 32
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 **01.11.2021 to 28.12.2021**

7. Outcome :

Around 32 students of Physical Science both (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. Students were able to develop skills like soldering of electrical circuits and construction of regulated power supply etc. Group Discussions and seminars , Assignments 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 Incharge

Signature of the Principal

PREM KUMAR	MPCs
G.TEJA	MPCs
G.SHIVA	MPCs
S.RAGHU RAM REDDY	MPCs
K.KIRAN KUMAR	MPCs
K.HARIKRISHNA	MPCs
K.NAVEEN KUMAR	MPCs
M.KAVITHA	MPCs
N. DATTU	MPCs
. MANICHANDER REDD	MPCs
N. RAJ KUMAR	MPCs
V. SUVARDAN REDDY	MPCs
Y.GOPI CHAND	MPCs
R.AISHWARYA	MPC
D.TEJASWINI	MPC
S.ANUSHA	MPC
RAMUDU	MPC
P.AKHIL PAVAN	MPC
M.NARSIMHA CHARY	MPC
Y.SHIVA KUMAR	MPC
R.SANGAMESHWER	MPC
B.SANTOSH	MPC

Roll Number	Name	U Rohith	V Rohith	U Rohith	U Rohith	U Rohith	U Rohith	U Rohith	U Rohith
1	124418468105	U. Rohith	U. Rohith	U. Rohith	U. Rohith	U. Rohith	U. Rohith	U. Rohith	U. Rohith
2	124418468121	M. Sharan	M. Sharan	M. Sharan	M. Sharan	M. Sharan	M. Sharan	M. Sharan	M. Sharan
3	124418468089	R. Laxmi	R. Laxmi	R. Laxmi	R. Laxmi	R. Laxmi	R. Laxmi	R. Laxmi	R. Laxmi
4	124418468120	P. Anusha	P. Anusha	P. Anusha	P. Anusha	P. Anusha	P. Anusha	P. Anusha	P. Anusha
5	124418468084	P. Shwani	P. Shwani	P. Shwani	P. Shwani	P. Shwani	P. Shwani	P. Shwani	P. Shwani
6	112016468002	Anandam Banerjee	Anandam Banerjee	Anandam Banerjee	Anandam Banerjee	Anandam Banerjee	Anandam Banerjee	Anandam Banerjee	Anandam Banerjee
7	124418468015	Ch. Anantha	Ch. Anantha	Ch. Anantha	Ch. Anantha	Ch. Anantha	Ch. Anantha	Ch. Anantha	Ch. Anantha
8	124418468017	D. Ranga Sree	D. Ranga Sree	D. Ranga Sree	D. Ranga Sree	D. Ranga Sree	D. Ranga Sree	D. Ranga Sree	D. Ranga Sree
9	124418468013	C. Anandakrishna	C. Anandakrishna	C. Anandakrishna	C. Anandakrishna	C. Anandakrishna	C. Anandakrishna	C. Anandakrishna	C. Anandakrishna
10	124418468016	D. Anitha Rani	D. Anitha Rani	D. Anitha Rani	D. Anitha Rani	D. Anitha Rani	D. Anitha Rani	D. Anitha Rani	D. Anitha Rani
11	124418468007	B. Ramesh Kumar	B. Ramesh Kumar	B. Ramesh Kumar	B. Ramesh Kumar	B. Ramesh Kumar	B. Ramesh Kumar	B. Ramesh Kumar	B. Ramesh Kumar
12	124418468023	G. Teja	G. Teja	G. Teja	G. Teja	G. Teja	G. Teja	G. Teja	G. Teja
13	124418468025	G. Shiva	G. Shiva	G. Shiva	G. Shiva	G. Shiva	G. Shiva	G. Shiva	G. Shiva
14	124418468102	S. Raghav Ram Reddy	S. Raghav Ram Reddy	S. Raghav Ram Reddy	S. Raghav Ram Reddy	S. Raghav Ram Reddy	S. Raghav Ram Reddy	S. Raghav Ram Reddy	S. Raghav Ram Reddy
15	124418468044	K. Elina Kumar	K. Elina Kumar	K. Elina Kumar	K. Elina Kumar	K. Elina Kumar	K. Elina Kumar	K. Elina Kumar	K. Elina Kumar
16	124418468047	K. Naveen Kumar	K. Naveen Kumar	K. Naveen Kumar	K. Naveen Kumar	K. Naveen Kumar	K. Naveen Kumar	K. Naveen Kumar	K. Naveen Kumar
17	124418468043	K. Anil Krishna	K. Anil Krishna	K. Anil Krishna	K. Anil Krishna	K. Anil Krishna	K. Anil Krishna	K. Anil Krishna	K. Anil Krishna
18	124418468077	N. Kavitha	N. Kavitha	N. Kavitha	N. Kavitha	N. Kavitha	N. Kavitha	N. Kavitha	N. Kavitha
19	124418468024	N. Datt	N. Datt	N. Datt	N. Datt	N. Datt	N. Datt	N. Datt	N. Datt
20	124418468072	N. Mani Chander Reddy	N. Mani Chander Reddy	N. Mani Chander Reddy	N. Mani Chander Reddy	N. Mani Chander Reddy	N. Mani Chander Reddy	N. Mani Chander Reddy	N. Mani Chander Reddy
21	124418468070	N. Raj Kumar	N. Raj Kumar	N. Raj Kumar	N. Raj Kumar	N. Raj Kumar	N. Raj Kumar	N. Raj Kumar	N. Raj Kumar
22	124418468117	V. Suresh Babu Reddy	V. Suresh Babu Reddy	V. Suresh Babu Reddy	V. Suresh Babu Reddy	V. Suresh Babu Reddy	V. Suresh Babu Reddy	V. Suresh Babu Reddy	V. Suresh Babu Reddy
23	124418468118	V. Ganireddy	V. Ganireddy	V. Ganireddy	V. Ganireddy	V. Ganireddy	V. Ganireddy	V. Ganireddy	V. Ganireddy
24	124418468105	K. Anish Kumar	K. Anish Kumar	K. Anish Kumar	K. Anish Kumar	K. Anish Kumar	K. Anish Kumar	K. Anish Kumar	K. Anish Kumar
25	124418468104	D. Tejashwini	D. Tejashwini	D. Tejashwini	D. Tejashwini	D. Tejashwini	D. Tejashwini	D. Tejashwini	D. Tejashwini
26	124418468108	S. Anusha	S. Anusha	S. Anusha	S. Anusha	S. Anusha	S. Anusha	S. Anusha	S. Anusha
27	1244184681026	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu
28	124418468102	P. Anusha	P. Anusha	P. Anusha	P. Anusha	P. Anusha	P. Anusha	P. Anusha	P. Anusha
29	124418468100	M. Narsimha Chary	M. Narsimha Chary	M. Narsimha Chary	M. Narsimha Chary	M. Narsimha Chary	M. Narsimha Chary	M. Narsimha Chary	M. Narsimha Chary
30	124418468103	V. Shikhar	V. Shikhar	V. Shikhar	V. Shikhar	V. Shikhar	V. Shikhar	V. Shikhar	V. Shikhar
31	1244184681024	R. Sangeetha	R. Sangeetha	R. Sangeetha	R. Sangeetha	R. Sangeetha	R. Sangeetha	R. Sangeetha	R. Sangeetha
32	1244184681002	R. Santhosh	R. Santhosh	R. Santhosh	R. Santhosh	R. Santhosh	R. Santhosh	R. Santhosh	R. Santhosh