

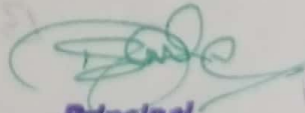
Syllabus

Chapter - 1:

Basic Electronic Circuits

- Voltage, Resistance, and Current
- Loop and Junction Rules
- The Voltage Divider
- Capacitors
- Inductors
- AC and DC Circuits
- Diodes
- Transistors
- Impedance
- Resistors

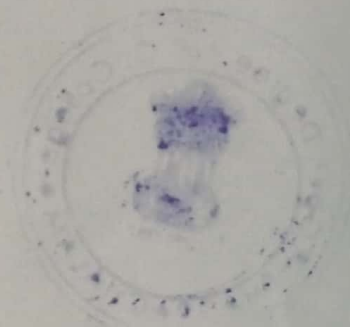



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Chapter - 2

Common Laboratory Equipment

- Wire and Cable
- Coaxial Cable
- Connectors
- DC power supplies
- Wave form Generators
- Meters
- Oscilloscopes
- Sweep and Trigger
- Input Voltage control
- Dual Trace Operator
- Band Width



Chapter-3

The voltage divider

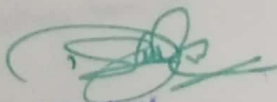
- The Resistor string
- Adding a capacitor
- Response to a pulse
- Response to a square
- Response to a step.

Chapter-4

Measurements

- Voltmeter
- Milli Ammeter
- Ohm meter
- Propagation of Errors.




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Chapter-5

Gravitational Acceleration.

- Gravity and the pendulum.
- Measurements and Analysis.

Chapter - 6

Resistivity of Metals.

- Resistance
- Resistivity
- Faraday's law
- Edly method.



Chapter - 7

Light production and Detection.

- Source of light -

- Thermal Radiation.

- Discrete Line Source.

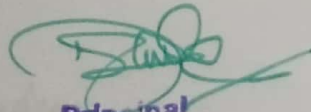
- Lasers.

Chapter - 8

Atomic Spectroscopy

- Energy levels of the Hydrogen Atom.

- Baird Spectrograph.


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References

1. Experimental physics: Modern methods,
by R.A. Dunlap.
2. Introduction to the structure of matter,
by John J. Brehm and William.
3. physics, Robert Resnick, David Halliday
4. practical physics

- G.L. Squires,

Atomic Spectroscopy

Energy levels of the hydrogen atom

Bohr's Spectroscopy

Examination :-

S.NO	Examination pattern	Duration in minutes	Max. Marks.
1.	Theory paper	40	40
2.	practical	40	40
Total :			<u>80</u>

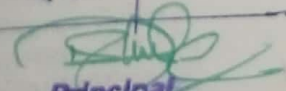
Examination pattern Will be followed for Examination and Certification :-

Note :-

1. Pass percentage would be 50% marks in each, with aggregate pass percentage of 50% and above.
2. Theory and practical Examinations would be evaluated internally.
3. Grading Will be as under:

Grade	O	A	B	C	D	D
Marks	>85%	>=75% - <85%	>65% - <75%	>55% - <65%	>50% - <55%	>50%




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Students List

H.T. NO	Name of the Student	Year & Group
03319-4003	Koppula Divya Sri	3 rd MPC
03319-4004	Madivi vasu	3 rd MPC
03319-4005	Ravulapalli Akhila	3 rd MPC
03319-4204	Borra Veeranna	3 rd MPC
03319-4205	Durgam Ganesh	3 rd MPC
03319-4206	Gangula Devi Priya	3 rd MPC
03319-4207	Gummadi Praneeth Kumar	3 rd MPC
03319-4208	Karrela Guru Venkata Sai Raghuvier	3 rd MPC
03319-4209	Karri Eswar	3 rd MPC
033-19-4107	Kondaveeti Pradeepthi	3 rd MPC
033-19-4108	Kunja Sandeep	3 rd MPC
033-19-4109	Ponikanti Janani	3 rd MPC
033-19-4110	Sk.Tasneem	3 rd MPC
033-19-4111	Sode Anjali	3 rd MPC
33204111	GADDALA DEEPIKA	2 nd MPC
33204112	GUNDI NALINI KUMARI	2 nd MPC
33204113	IRPA VIJAYA BABU	2 nd MPC
33204114	KAIGALA DURGA PRASAD	2 nd MPC
33204115	KARAM SRINIVAS	2 nd MPC
33204116	KOUDA SAIKIRAN	2 nd MPC
33214105	KARRI KEERTHANA	2 nd MPC
33214106	KARRI SRIJA	2 nd MPC
33214107	KILARI SAI DURGA	2 nd MPC
33214109	MOHAMMAD AFREED	1 st MPC
33214110	MALAMPATI SHIVA GAYATHRI	1 st MPC
33214111	MALLA DHATRI	1 st MPC
33214112	MULKALAPALLI GANESH	1 st MPC
33214113	ORSU MALLESWARI	1 st MPC
33204502	ANVESH	1 st MPC
33204001	ANNAPUREDDY RAMA SAI	2 nd MPC
33204002	BANDELA JOSHAPH KUMAR	2 nd MPC



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CERTIFICATE

MODEL

GOVERNMENT DEGREE COLLEGE

BHADRACHALAM

BHADRADRI KOTHAGUDEM., TELANGANA STATE

NAAC-B*

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that Mr. /Miss.....


S/o/ D/o.....of class.....was trained in

"EXPERIMENTAL PHYSICS" in Govt. Degree & P.G College, Bhadrachalam from 18th JAN 2021 to 18th MAR 2021

COURSE
ORGANISER

DEPARTMENT
IN-CHARGE




PRINCIPAL
Principal
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Bhadrachalam-507 111,
Bhadradi Kothagudem Dist.

Certificate distribution with principal:



Saleem
Principal
Govt. Degree College
Bhadrachalam-507111
Bt. Aradri Kothagudem