



SPVSS

**G.P. PORWAL ARTS, COMMERCE &
V.V. SALIMATH SCIENCE COLLEGE,
SINDGI**

BROCHURE



DEPARTMENT OF PHYSICS

CERTIFICATE COURSE

2022-23

Title : PREPARATION OF POWER SUPPLY

DATE: 23/11/2022 TO 10/02/2023

Inauguration

23/11/2022

Time : 10:30 AM

Valedictory

10/02/2023

Time : 10:30 AM


Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S. Science
College, SINDAGI - 586 128.


Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College,
SINDGI-586128.


Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 5234



S.P.V.V.S'S
G.P.PORWAL ARTS, COMMERCE AND
V.V.SALIMATH SCIENCE COLLEGE,
SINDGI - 586 128
(Dist: Vijayapur. Karnataka State)

NAME OF THE COURSE

PREPARATION OF POWER SUPPLY

OFFERED BY

DEPARTMENT OF
PHYSICS

COURSE CODE

PHYPS.2022-23

COURSE COORDINATOR

SHRI M.H.LONI
HOD, PHYSICS

DEPARTMENT OF PHYSICS CERTIFICATE COURSE DETAILS

INSTRUCTIONAL DESIGN

30 HOURS (This course is of Thirty Hrs duration which include Theory and Practical)

ABOUT COLLEGE

G.P.Porwal Arts, Commerce & V.V.Salimath Science College is the first science college in Sindagi Taluk of Vijayapura district which provides education in science stream at U.G. level to the educationally, economically and socially backward students of this Taluk. Since 1988, many students are graduated with B.Sc in Physics is one of the optional subject.

IQAC of G.P.Porwal Arts, Commerce & V.V.Salimath Science College, in its meeting decided to introduce few self financed certificate courses from the academic sessions 2022-23. The continuation of these courses will depend on interest and participation of students.

ELIGIBILITY

All students belonging to V semester are eligible to enroll for the course.


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C.P.P. Arts, Commerce & V.V.S. Science
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Coordinator IQ
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Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 52

OBJECTIVES

Every home in the modern world is equipped with Home Appliances which work with the help of Electrical/Electronic power supplies. Some time a casual faults in the equipments e.g. Mixer Grinder, Refrigerator, TV sets, Geysers, Air Conditioners. etc. may be due to loose contact in the connections. When such kind of difficulty arises at homes the people become panic. In such circumstance the students who have completed the certificate course “ PREPARATION OF POWER SUPPLY “ can be able to

- Find out minor faults in electronic equipments
- Repair the Appliances
- Understand basic knowledge about construction of Power supply

The students can Establish a small scale industry

BENEFITS OF PREPARATION OF POWER SUPPLY

1. Safety when power misbehaves
2. Bridge the connectivity gap
3. Protecting reputations

4. Protect the public and other businesses

5. Choose from multiple design

COURSE OUTCOMES

After completion of course the student is able to

- Design the desired voltage power supply
- Find out the fault in any other power supplies
- To repair minor faults
- Soldering
- Minor carpentry work
- To repair minor household electric wiring faults etc
- Know Short circuit reasons
- Aware of Electric Shocks

BOARD OF STUDIES

1. Prof.M.H.Loni
2. Dr. B.G.Math
3. Prof.Praveen B Dalawai
4. Prof.soumya nigadi

THANK YOU


Head
Dept. of Physics
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SINDGI-586128 DIST: VIJAYAPUR

Department of Physics

To,
The Coordinator,
IQAC

Date: 13/11/2022

Academic Year: 2022-23

Sub: Request for Permission to Introduce Certificate Course in Physics

Sir/Madam,

With reference to subject cited above I would like to bring to your kind information that; our Department is going to introduce Certificate Course for B.Sc. V semester students. Kindly permit us the same for the welfare of our students.

Hoping that the authority will do the needful and oblige

Thanking you

Place; Sindgi

Date: 13/11/2022


Head of Department
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S. Science
College, SINDGI - 586 128.


Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S. Science
College, SINDGI - 586 128.


Coordinator IQAC
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SINDGI-586128 DIST: VIJAYAPUR

Date:14/11/2022

To,
Head,
Department of Physics

Academic Year:2021-22

Sub: Permission to Introduce Certificate Course in the Dept. of Physics

Ref: Your letter Dated: 13/11/2022

Sir/Madam,

With reference to subject cited above I herewith permit you to introduce
Certificate Course for B.Sc. V semester students.

Thanking you

Place; Sindgi

Date:14/11/2022


Coordinator IQAC
G. P. PORWAL ARTS, COMM &
V. V. SALIMATH SC. College
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V. V. SALIMATH SC. College
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SINDGI-586128. College Code: 5234

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SINDGI-586128 DIST: VIJAYAPUR

DEPARTMENT OF PHYSICS
CERTIFICATE COURSE
OBJECTIVES

Title of the Course: **PREPARATION OF POWER SUPPLY**

Every home in the modern world is equipped with Home Appliances which work with the help of Electrical/Electronic power supplies. Some time a casual faults in the equipments e.g. Mixer Grinder, Refrigerator, TV sets, Geysers, Air Conditioners. etc. may be due to loose contact in the connections. When such kind of difficulty arises at homes the people become panic. In such circumstances the students who have completed the certificate course “

PREPARATION OF POWER SUPPLY “ can be able to

- Find out minor faults in electronic equipments
- Repair the Appliances
- Understand basic knowledge about construction of Power supply

The students can Establish a small scale industry


Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College,
SINDGI-586128.


Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S. Science
College, SINDAGI - 586128


Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. Col
SINDGI-586128

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SINDGI-586128 DIST: VIJAYAPUR

Date: 18/11/2022

Department of Physics

NOTICE

It is hereby informed to all the students of BSc V semester that Certificate course on
"Preparation of Power supply " will be started from 21/11/2022 in our college from.
Hence interested students may apply on or before 21/11/2022

Contact:

Prof. M.H.Loni, (HOD)
Prof.BASAVARAJ.GURUSHETTI

Prof. PRAVEEN DALAWAI

Prof. SOUMYA NIGADI


Head
Dept. of Physics
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SINDGI-586128, College Code

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SINDGI-586128 DIST: VIJAYAPUR

Department of Physics

Certificate course

➤ Preparation of Power supply

Syllabus:-

✓ **Capacitor, Resistor, Transformer**

15hrs

Capacitor:- Color code, types of capacitors, tolerance, series and parallel connection of capacitors, voltage rating of capacitors, **Resistors:-** Carbon resistors, wire wind resistors, metal film resistors, color code, tolerance, series and parallel connection of resistors, ohms law, wattage of resistors, **Inductors :-** Air core inductors and iron core inductors, **Transformer:-** term ratio, types i.e. step up and step down transformer, current rating, mutual inductance. regulator using transistor

✓ **Diode, Rectifier, Filters, Regulator (Zener diode, 3 pin regulator)** 15hrs

Semiconductors, intrinsic and extrinsic semiconductors, P type and n type semiconductors, junction diode, transistor, biasing(forward and backward), zener diode, rectifier, half wave rectifier, full wave rectifier using diode, static rectifier, filters, condenser filter, L- section filter, Pi- section filter, breeder resistance, **Testing of power supply:-** open circuit voltage, current rating, output resistance, 3 pin regulator

✓ Soldering, Drilling, Terminal fitting

03hrs

✓ Workshop, Preparation of PCB

03hrs

Total = 36 hrs

Board of Syllabus committee

1) Prof. M.H.Loni (HOD)

2) Dr.B.G.Math


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DEPARTMENT OF PHYSICS

INUGURATION OF CERTIFICATE COURSE: 2022-23



[Signature]
Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.S. Science
College, SINDGI - 586 128

[Signature]
Coordinator IQA
G. P. PORWAL ARTS, Co.
V. V. SALIMATH Sc. Coll.
SINDGI-586128.

[Signature]
Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 5221

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G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE,
SINDGI - 586 128 Dist: Vijayapur

DEPARTMENT OF PHYSICS

ENROLLEMENT APPLICATION



1. Name of the Course: - Preparation of Power supply
2. Year of the Course: 2022-23

General Information of the Candidate

Name of the Student: Gururaj P. Konnur Class: B.Sc Vth Sem

Sex: Male: ☒ Female: ☐

Date of Birth: 10/06/2001 Mobile No. 8217292327

Permanent Address: Kudalagi, Tal: Surapur
D: Yachayir
At: post: Braichababa

Declaration

I hereby certify that above information furnished by me is true to the best of my knowledge and belief. I shall regularly attend all theory and Practical classes in the Dept. of Physics, in case shortage of attendance I may not be permitted to appear for the examination. Further I declare that I shall abide by the rules and regulation of the college/Dept. of Physics and adhere to the discipline.

Gururaj P. Konnur
Signature of the Student

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SINDGI – 586 128 Dist: Vijayapur

DEPARTMENT OF PHYSICS

ENROLLEMENT APPLICATION



1. Name of the Course: – Preparation of Power supply
2. Year of the Course: 2022-23

General Information of the Candidate

Name of the Student: Akshada Class: VI sem

Sex: Male: ☐ Female: ☒

Date of Birth: 8/06/2002 Mobile No. 8088713736

Permanent Address: Hosurwal
Tq. Jewargi
Dist. Gulbarga.

Declaration

I hereby certify that above information furnished by me is true to the best of my knowledge and belief. I shall regularly attend all theory and Practical classes in the Dept. of Physics, in case shortage of attendance I may not be permitted to appear for the examination. Further I declare that I shall abide by the rules and regulation of the college/Dept. of Physics and adhere to the discipline.

Akshada
Signature of the Student

SPVVS'S
G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE,
SINDGI-586128 DIST: VIJAYAPUR

Date: 22/11/2022

Department of Physics

: Certificate course :

(only for Fifth semester)

THEORY & PRACTICAL TIME TABLE : 2022-23

Days	TIME		Name of the faculty
	THEORY	PRACTICAL	
Monday	3PM to 4PM		1. Prof. M.H.Loni (HOD) 2. Prof.BASAVARAJ.GURUSHETTI 3. Prof. PRAVEEN B DALAWAI 4. Prof. SOUMYA NIGADI
Tuesday	3PM to 4PM		
Wednesday	3PM to 4PM		
Thursday	3PM to 4PM		
Friday		3PM TO 5PM	
Saturday		3PM TO 5PM	


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**G..P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE,
SINDAGI - 586128**

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE : 2022-23 PREPARATION OF POWER SUPPLY

CLASS : B.SC. V SEMESTER ENROLLMENT LIST

Sl No	Reg. No	Name of the Students	Sign
1	S2028695	PRAJWAL MANGANAVAR	
2	S2032401	AISHWARYA MADIVALAPPA MASIBNAL	
3	S2032403	AKASH DEVINDRAPPA EMMETI	
4	S2032404	AKASH KUMBAR	
5	S2032405	AKSHATA	
6	S2032409	AMBIKA MAHADEVAPPA BISE	
7	S2032411	APSANABEGUM KATAGAR	
8	S2032412	ARCHANA	
9	S2032416	BASAVARAJ HIREMATH	
10	S2032417	BASAVARAJ KARASHETTY	
11	S2032418	BHAGAMMA	
12	S2032419	BHAGAVANTRAY YARAGAL	
13	S2032421	BHAGYALAXMI NAGESH NAIKODI	
14	S2032424	BHAGYASHREE G NADAKUR	
15	S2032425	BHAGYASHREE GURUNATH HARSUR	
16	S2032426	BHAGYASHREE MALLAPPA HARIJAN	
17	S2032427	BHAGYASHREE NANAGOUDA	
18	S2032428	BHAGYASHREE PATTAR	
19	S2032429	BHAGYASHREE SHIVANAND PATTAR	
20	S2032431	BHARATI BAGALI	
21	S2032432	BHUVANESHWARI	
22	S2032433	BHUVANESHWARI JATTANAL	
23	S2032435	CHAITRA SANGAM	
24	S2032439	DEEPA MADIVALAYYA RAMPURMATH	
25	S2032440	DEEPIKA PADMESH NAYAK	
26	S2032442	GOLLALAPPAGAUD PATIL	
27	S2032443	GURURAJ KONNUR	
28	S2032444	HANAMANTA PUJARI	
29	S2032445	HEENA KOUSAR AZIZ PATEL BIRADAR	
30	S2032446	HEMA ASHOK SINGRI	

Head
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Coordinator IQAC
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Page 1 of 3

Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDAGI - 586128, College Code: 5221

Sl No	Reg. No	Name of the Students	Sign
31	S2032447	HUSENBI PATIL	Huse
32	S2032448	KAMALAKSHI NAIKODI	Kamali
33	S2032449	KARTIK BIRADAR	KSB
34	S2032451	KAVERI MUJAGOND	Kaveri
35	S2032453	KEERTI	Keerti
36	S2032455	KRISHNA JAMBENAL	Krishna
37	S2032456	LAXMI	Laxmi
38	S2032459	MALLANAGOUD CHANDRASHEKHAR PATIL	Mallanagoud
39	S2032460	MALLANAGOUDA	Mallanagoud
40	S2032461	MALLIKARJUN SAMBHA	Mallikarjun
41	S2032462	MEENAKSHI HACHCHADAD	Meenakshi
42	S2032465	MUSKAN JUMANAL	Muskan
43	S2032468	NAJMINBEGUM	Najmin
44	S2032469	NEELAMMA	Neelamma
45	S2032471	PALLAVI GANGARAM RATHOD	Pallavi
46	S2032472	PARASHURAM	Parashuram
47	S2032475	PRAKASH AMMAGOL	Prakash
48	S2032476	PRAKASHA DUNDAPPA JADAGI	Prakash
49	S2032478	PRASHANT HIEMATH	Prashant
50	S2032479	PRASHANT JERAKAR	Prashant
51	S2032480	PRASHANT VITTHAL GADADE	Prashant
52	S2032481	PRATIBHA HADAGALL	Pratibha
53	S2032482	PREETI	Preeti
54	S2032483	PREMA	Prema
55	S2032484	PREMKUMAR OLEKAR	Premkumar
56	S2032486	PRIYANKA SAIBANNA PADASALAGI	Priyanka
57	S2032488	RAHUL CHINCHOLI	Rahul
58	S2032489	RAHUL RAMANNA GORANAL	Rahul
59	S2032495	RAYAPPAGOUDA	Rayappa
60	S2032497	ROHIT PANDIT	Rohit
61	S2032498	ROOPA CHANDRAM PUJARI	Roopa
62	S2032499	SACHIN RATHOD	Sachin
63	S2032501	SAHANA ARAVIND SANGAM	Sahana
64	S2032504	SANAKOUSAR H CHANDRAKI	Sanakousar

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 Page 2 of 3

Principal,
 G. P. Porwal Arts, Comm
 V. V. Salimath Sc. Colleg
 CINDGI-586128. College Code:

Sl No	Reg. No	Name of the Students	Sign
65	S2032505	SANGANAGOUD BIRADAR	
66	S2032506	SANGEETA	
67	S2032511	SAVITA M TALAWAR	
68	S2032513	SHAMEER ABDULSAB TALIKOTI	
69	S2032514	SHANTABAI JADHAV	
70	S2032518	SHIVALEELA	
71	S2032519	SHIVANI RAMESH PATTAR	
72	S2032520	SHIVASHANKAR	
73	S2032522	SHREEKANT MADARI	
74	S2032524	SHWETA	
75	S2032525	SHWETA	
76	S2032529	SIDDANAGOUD SALOTAGI	
77	S2032530	SIDDARTH TALLOLI	
78	S2032531	SIDDHARAM GANGADHARA BADIGER	
79	S2032532	SNEHA S NADAKUR	
80	S2032535	SOUMYA HADAPAD	
81	S2032538	SUNIL	
82	S2032539	SUPRIYA	
83	S2032540	SUPRIYA GAYAKAWAD	
84	S2032543	ULFATH SALEEM BALAGANUR	
85	S2032544	V VIDYAPRASAD	
86	S2032545	VASUDEV	
87	S2032546	VIDYASHREE	
88	S2032548	VIJAYALAXMI SAYABANNA POOJARI	
89	S2032549	VINOD VIJAYKUMAR DESAI	
90	S2032551	VISHWANATH DATTATREY PATTAR	
91	S2032552	VISHWANATH KUMBAR	
92	S2032553	VISHWANATH YATNOOR	
93	S2032554	YUVARAJ	
94	S2035651	NIYA ANJUM HOSAMANI	
95	S2090012	KAVERI ITAGATTI	

Head
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 College, SINDAGI - 586 128.

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SINDGI-586128 DIST: VIJAYAPUR

Department of Physics
Certificate Course-2022-23
"Preparation of Power supply"

NOTICE

It is hereby informed to all the students of B.Sc V semester who have participated in Certificate course please attend Practical and Theory exam as per following time table.

Date	Day	Time	Examination	Marks
02/02/2023	Thursday	1.30 to 3.0 pm	Theory	50
02/02/2023	Thursday	3.30 to 5.30 pm	Practical	50


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SINDGI - 586 128 DIST: VIJAYAPUR

Department of Physics

Certificate Course : Preparation of Power Supply

Academy Year : 2022-23

THEORY ATTENDANCE

Sl.NO	Reg. No	NAME OF THE STUDENTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	S2032401	AISHWARYA M MASIBINAL																				
2	S2032403	AKASH DEVINDRAPP																				
3	S2032404	AKASH KUMBAR																				
4	S2032405	AKSHATA																				
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24	S2032440	DEEPIKA PADMESH NAYAK																				
25	S2032442	GOLLALAPPAPOUD PATIL																				

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G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE
SINDGI - 586 128 DIST: VIJAYAPUR

Department of Physics

Certificate Course : Preparation of Power Supply

Academy Year : 2022-23

PRACTICAL ATTENDANCE

Sl.NO	Reg. No	NAME OF THE STUDENTS	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	S2032401	AISHWARYA M MASIBINAL																				
2	S2032403	AKASH DEVINDRAPP EMMETI																				
3	S2032404	AKASH KUMBAR																				
4	S2032405	AKSHATA																				
5	S2032409	AMBIKA BISE																				
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Head
Dept. of Physics

Coordinator IQAC
G. P. PORWAL ARTS, COM &

Principal,
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			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
26	S2032443	GURURAJ KONNUR																				
27	S2032444	HANAMANTA PUJARI																				
28	S2032445	HEENA KOUSAR AZIZ PATEL																				
29	S2032446	HEMA ASHOK SINGRI																				
30	S2032447	HUSENBI PATIL																				
31	S2032448	KAMALAKSHI NAIKODI																				
32	S2032449	KARTIK BIRADAR																				
33	S2032451	KAVERI MUJAGOND																				
34	S2032453	KEERTI																				
35	S2032455	KRISHNA JAMBENAL																				
36	S2032456	LAXMI																				
37	S2032459	MALLANAGOUD C PATIL																				
38	S2032460	MALLANAGOUDA																				
39	S2032461	MALLIKARJUN SAMBHA																				
40	S2032462	MEENAKSHI HACHHADAD																				
41	S2032465	MUSKAN JUMANAL																				
42	S2032468	NAJMINBEGUM																				
43	S2032469	NEELAMMA PATIL																				
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46	S2032475	PRAKASH AMMAGOL																				
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48	S2032478	PRASHANT HIREMATH																				
49	S2032479	PRASHANT JERAKAR																				
50	S2032480	PRASHANT VITTHAL GADADE																				
51	S2032481	PRATIBHA HADAGALL																				
52	S2032482	PREETI																				
53	S2032483	PREMA																				
54	S2032484	PREMKUMAR OLEKAR																				
55	S2032486	PRIVANKA SAIBANNA																				

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56	S2032488	RAHUL CHINCHOLI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
57	S2032489	RAHUL RAMANNA GORANAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
58	S2032495	RAYAPPA GOUDA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
59	S2032497	ROHIT PANDIT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
60	S2032498	ROOPA CHANDRAM PUJARI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
61	S2032499	SACHIN RATHOD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
62	S2032501	SAHANA ARAVIND SANGAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
63	S2032504	SANAKOUSAR H CHANDRAKI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
64	S2032505	SANGANAGOD BIRADAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
65	S2032506	SANGEETA H BAJANTRI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
66	S2032511	SAVITA M TALAWAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
67	S2032513	SHAMEER ABDULSAB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
68	S2032514	SHANTABAI JADHAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
69	S2032518	SHIVALEELA GORAGUNDAGI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
70	S2032519	SHIVANI RAMESH PATTAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
71	S2032520	SHIVASHANKAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
72	S2032522	SHREEKANT MADARI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
73	S2032524	SHWETA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
74	S2032525	SHWETA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
75	S2032529	SIDDANAGOD SALOTAGI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
76	S2032530	SIDDARTH TALLOLI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
77	S2032531	SIDDHARAM GANGADHARA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
78	S2032532	SNEHA S NADAKUR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
79	S2032535	SOUMYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
80	S2032538	SUNIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
81	S2032539	SUPRIYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
82	S2032540	SUPRIYA GAYAKAWAD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
83	S2032543	ULFATH SALEEM BALAGANUR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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74	S2032525	SHWETA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
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76	S2032530	SIDDARTH TALLOLI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
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85	S2032545	VASUDEV																				
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94	S2030012	Kaveeri P. Jagatti																				
95	S2028695	PRAJWAL MANGANAVAR																				

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Date: 02/02/2023

Department of Physics

Certificate Course-2022-2023

"Preparation of Power supply"

(Only for Fifth semester)

Tme: 2 Hrs

Question Paper 2022-23

Max Marks: 50

Q.No: 1 Answer any five of the following questions.

10 X 5 = 50

- 1) What is resistor? Explain its color code And series and parallel combination of resistors?
- 2) What is extrinsic semiconducto? Explain biasing of junction diode?
- 3) What is capacitor? Describe its working And explain different types of capacitor?
- 4) What is rectifier and Explain Bridge type full wave rectifier using diode?
- 5) a) What is Zener diode? Explain Zener diode is used as voltage regulator?
b) What is filter? Explain L- section and π - section filters?


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DEPARTMENT OF PHYSICS

Course Outcome

After completion of course the student is able to

- Design the desired voltage power supply
- Find out the fault in any other power supplies
- To repair minor faults
- Soldering
- Minor carpentry work
- To repair minor household electric wiring faults etc
- Know Short circuit reasons
- Aware of Electric Shock
- Basic things about Electric power production


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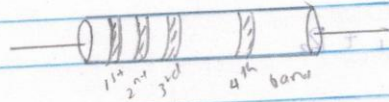


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$\frac{40}{50}$

Q. What is resistor? Explain its colour code and series and parallel combination of resistors?

* The numerical value of resistance of the resistor is known by a system called colour code.



Black at bro

Brown

Red

For CMS

Yellow

Group

Blank

Violet

Будан

like

Tolerance

Gold - $\pm 5\%$

Solve - ± 10

alone in 20 yr

For eg:-

1) Orange - blue yellow gold.

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2) What is semiconductor? Explain its types?

(Explain b/w of junction diode)

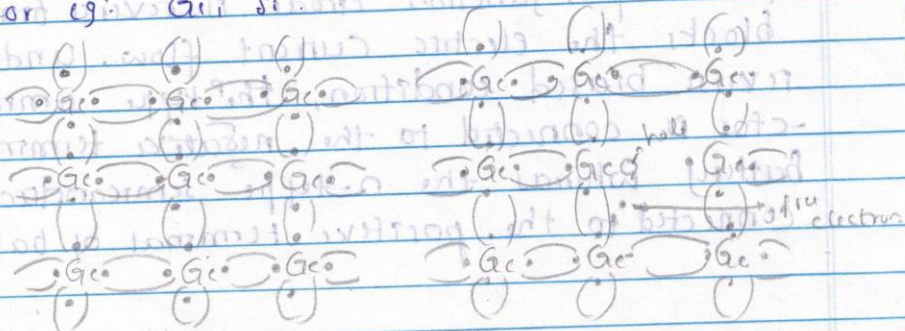
Semiconductors are the solids which have electrical resistivity or conductivity in between of metals and insulators.

Types of Semiconductors.

There are two types of semiconductors.

1) Intrinsic semiconductor.

Intrinsic semiconductor is one in which the number of electrons and holes are equal.
for eg:- Ge, Si.



At 0 K

At room temperature

* In intrinsic semiconductor the electrons and holes are always created in pairs.

2) Extrinsic semiconductor.

Extrinsic or impure semiconductor is one in which the number of electrons and holes are not equal.

for eg:- n-type semiconductor, p-type semiconductor.

Conductivity of extrinsic semiconductor depends on

a) density of charge carriers

b) mobility of charge carriers



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ROLL NO.	DATE	

- 3) What is Capacitor? Describe its working and explain different types of capacitor. A capacitor is an electronic device that stores electric charge or electricity when voltage is applied and releases stored electric charge whenever required.

Working:

Unlike the battery, a capacitor is a circuit component that temporarily stores electrical energy through distributing charged particles on plates to create a potential difference. A capacitor can take a shorter time than a battery to charge up and it can release all the energy very quickly.

Types of Capacitor

1. Electrolytic Capacitor

The electrolytic capacitor are used when the large capacitor values are required. The thin metal film layer is used for one electrode and for the second electrode a semi-liquid electrolyte solution which is in jelly or paste is used.

2. Mica Capacitor

This capacitor is a group of natural minerals and the silver mica capacitors use the dielectric. There are two types of mica capacitor which are clamped capacitor & mica capacitor.

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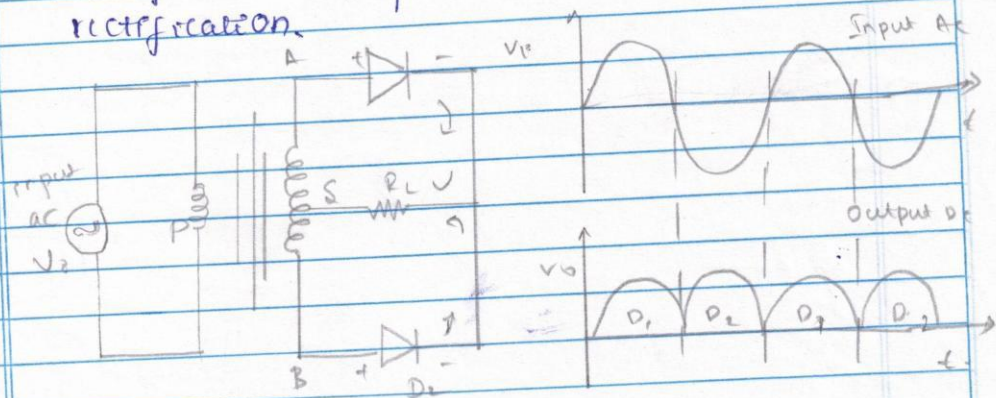
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4)

What is rectifier and Explain full wave rectifier using diode.
The device which converts AC voltage into DC voltage is called a rectifier.

The working of a semiconductor diode as a full wave rectifier.

A device which converts both the half cycles of AC into DC is known as full wave rectifier. This process is called full wave rectification.



The circuit diagram of a full wave rectifier is as shown in the fig. An AC voltage (Input AC) to be rectified is applied to a primary coil, P of a stepdown transformer.

The p-region of the semiconductor diode, D_1 and D_2 are connected to the free ends of A and B of the secondary of a transformer.

The n-regions of the diodes are connected to the centre tap of the transformer through a load resistor R_L .

During the first half cycle of input AC, A is +ve with respect to B. The diode D_1 is forward biased and D_2 is reverse biased. D_1 conducts but D_2 does not conduct.



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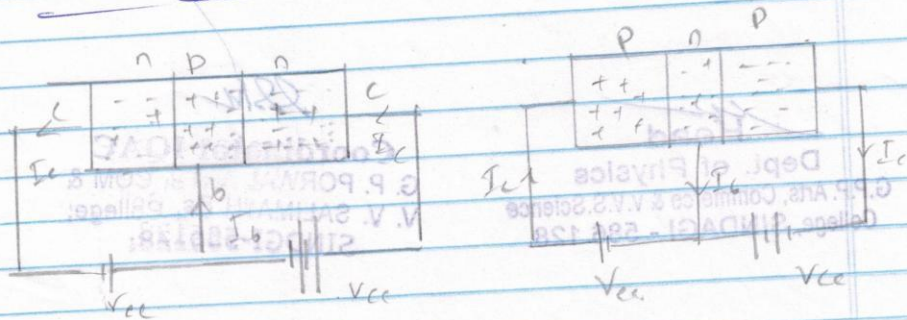
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5) What is transistor and zener diode?
Explain working of any one?

Transistor: A transistor is a three terminal two junction semiconductor device.

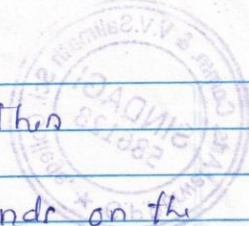
Zener diode: It is a p-n junction semiconductor device that is designed to operate in the reverse breakdown voltage.

Working of transistor (npn)



In the normal operation of a transistor, emitter base junction is forward biased and collector base junction is reverse biased as shown in fig. When emitter is forward biased a large number of electrons flow from the emitter region to the base region. This constitutes the emitter current. Some of these electrons combine with holes in the base region resulting base current I_b . Since the base is very thin and lightly doped the remaining electrons will flow through the base-collector junction and

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- take the collector current I_c then

$$I_e = I_b + I_c$$

Since the collector current depends on the base current so the collector current I_c can be controlled by base current. So the collector current I_c can be controlled by base current. Thus (bistatic) transistor is a current controlled device.

Similarly in pnp transistor a large number of holes flow from the emitter to base region. Some of these holes combine with electron in base. The remaining holes are collected by the collector. The relation between these currents is $I_e = I_b + I_c$. Thus transistor is a current controlled device.

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SINDGI-586128;

[Signature]
Principal,

G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128, College Code: 5234

G..P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE, SINDAGI - 586128

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE : 2022-23 PREPARATION OF POWER SUPPLY

CLASS : B.SC. V SEMESTER

MARKS LIST

Sl No	Reg. No	Name of the Students	MARKS OBTAINED / 100		Sign
			Theory 50	Practical 50	
1	S2028695	PRAJWAL MANGANAVAR			
2	S2032401	AISHWARYA MADIVALAPPA MASIBNAL	45	48	<i>Aishwarya</i>
3	S2032403	AKASH DEVINDRAPPA EMMETI	42	43	<i>Akash</i>
4	S2032404	AKASH KUMBAR	45	47	<i>Akash</i>
5	S2032405	AKSHATA	45	46	<i>Akshata</i>
6	S2032409	AMBIKA MAHADEVAPPA BISE	39	40	<i>Ambika</i>
7	S2032411	APSANABEGUM KATAGAR	42	45	<i>Apna</i>
8	S2032412	ARCHANA	35	39	<i>Archana</i>
9	S2032416	BASAVARAJ HIREMATH	39	42	<i>B</i>
10	S2032417	BASAVARAJ KARASHETTY	42	45	<i>B. Karashetty</i>
11	S2032418	BHAGAMMA	46	43	<i>Bhagamma</i>
12	S2032419	BHAGAVANTRAY YARAGAL	43	44	<i>Bh</i>
13	S2032421	BHAGYALAXMI NAGESH NAIKODI	42	45	<i>Bhagyalaxmi</i>
14	S2032424	BHAGYASHREE G NADAKUR	46	40	<i>Bhagya</i>
15	S2032425	BHAGYASHREE GURUNATH HARSUR	40	45	<i>Bhagya</i>
16	S2032426	BHAGYASHREE MALLAPPA HARIJAN	45	47	<i>Bhagya</i>
17	S2032427	BHAGYASHREE NANAGOUDA	41	44	<i>Bhagya</i>
18	S2032428	BHAGYASHREE PATTAR	40	39	<i>Bhagya</i>
19	S2032429	BHAGYASHREE SHIVANAND PATTAR			
20	S2032431	BHARATI BAGALI	39	40	<i>Bhagali</i>
21	S2032432	BHUVANESHWARI	42	44	<i>Bhuvaneswari</i>
22	S2032433	BHUVANESHWARI JATTANAL	46	43	<i>Bhuvaneswari</i>
23	S2032435	CHAITRA SANGAM	44	45	<i>Chaitra</i>
24	S2032439	DEEPA MADIVALAYYA RAMPURMATH	47	41	<i>Deepa</i>
25	S2032440	DEEPIKA PADMESH NAYAK	42	45	<i>Deepika</i>
26	S2032442	GOLLALAPPAGAUD PATIL	43	45	<i>Gollalappagoud</i>
27	S2032443	GURURAJ KONNUR	44	46	<i>Gururaj</i>
28	S2032444	HANAMANTA PUJARI			
29	S2032445	HEENA KOUSAR AZIZ PATEL BIRADAR	45	47	<i>Heena</i>

Head
Dept. of Physics

Coordinator
G.P. PORWAL ARTS, COM

Principal,
G. P. Porwal Arts, Comm &

Sl No	Reg. No	Name of the Students	MARKS OBTAINED / 100		Sign
			Theory 50	Practical 50	
30	S2032446	HEMA ASHOK SINGRI	43	46	<u>H.S.</u>
31	S2032447	HUSENBI PATIL	42	45	<u>H.P.</u>
32	S2032448	KAMALAKSHI NAIKODI	46	48	<u>K.N.</u>
33	S2032449	KARTIK BIRADAR	42	43	<u>K.B.</u>
34	S2032451	KAVERI MUJAGOND	43	44	<u>K.M.</u>
35	S2032453	KEERTI	45	47	<u>K.</u>
36	S2032455	KRISHNA JAMBENAL	46	48	<u>K.J.</u>
37	S2032456	LAXMI	49	50	<u>L.</u>
38	S2032459	MALLANAGOUD C PATIL	41	45	<u>M.P.</u>
39	S2032460	MALLANAGOUDA	42	45	<u>M.</u>
40	S2032461	MALLIKARJUN SAMBHA	44	47	<u>M.S.</u>
41	S2032462	MEENAKSHI HACHCHADAD	44	42	<u>M.H.</u>
42	S2032465	MUSKAN JUMANAL	39	41	<u>M.J.</u>
43	S2032468	NAJMINBEGUM	35	39	<u>N.B.</u>
44	S2032469	NEELAMMA	40	45	<u>N.</u>
45	S2032471	PALLAVI GANGARAM RATHOD	46	48	<u>P.R.</u>
46	S2032472	PARASHURAM	42	45	<u>P.</u>
47	S2032475	PRAKASH AMMAGOL	44	46	<u>P.A.</u>
48	S2032476	PRAKASHA DUNDAPPA JADAGI	45	47	<u>P.J.</u>
49	S2032478	PRASHANT HIREMATH			
50	S2032479	PRASHANT JERAKAR	46	48	<u>P.J.</u>
51	S2032480	PRASHANT VITTHAL GADADE	44	46	<u>P.G.</u>
52	S2032481	PRATIBHA HADAGALL	39	42	<u>P.H.</u>
53	S2032482	PREETI	40	42	<u>P.</u>
54	S2032483	PREMA	43	45	<u>P.</u>
55	S2032484	PREMKUMAR OLEKAR	46	49	<u>P.O.</u>
56	S2032486	PRIYANKA SAIBANNA PADASALAGI	42	45	<u>P.P.</u>
57	S2032488	RAHUL CHINCHOLI	46	47	<u>R.C.</u>
58	S2032489	RAHUL RAMANNA GORANAL	46	49	<u>R.G.</u>
59	S2032495	RAYAPPAGOUDA	49	45	<u>R.</u>
60	S2032497	ROHIT PANDIT	42	45	<u>R.P.</u>
61	S2032498	ROOPA CHANDRAM PUJARI	45	46	<u>R.P.</u>
62	S2032499	SACHIN RATHOD	41	42	<u>S.R.</u>
63	S2032501	SAHANA ARAVIND SANGAM	43	44	<u>S.A.</u>

Head

Coordinator IQAC

Principal,

G. D. P. Arts, Comm. &

Sl No	Reg. No	Name of the Students	MARKS OBTAINED / 100		Sign
			Theory 50	Practical 50	
64	S2032504	SANAKOUSAR H CHANDRAKI	44	46	<i>[Signature]</i>
65	S2032505	SANGANAGOUD BIRADAR	47	48	<i>[Signature]</i>
66	S2032506	SANGEETA	49	48	<i>[Signature]</i>
67	S2032511	SAVITA M TALAWAR	42	45	<i>[Signature]</i>
68	S2032513	SHAMEER ABDULSAB TALIKOTI	43	44	<i>[Signature]</i>
69	S2032514	SHANTABAI JADHAV	45	46	<i>[Signature]</i>
70	S2032518	SHIVALEELA	41	45	<i>[Signature]</i>
71	S2032519	SHIVANI RAMESH PATTAR	44	46	<i>[Signature]</i>
72	S2032520	SHIVASHANKAR	39	35	<i>[Signature]</i>
73	S2032522	SHREEKANT MADARI	36	39	<i>[Signature]</i>
74	S2032524	SHWETA	40	45	<i>[Signature]</i>
75	S2032525	SHWETA	45	46	<i>[Signature]</i>
76	S2032529	SIDDANAGOUD SALOTAGI	47	48	<i>[Signature]</i>
77	S2032530	SIDDARTH TALLOLI	49	50	<i>[Signature]</i>
78	S2032531	SIDDHARAM GANGADHARA BADIGER	50	45	<i>[Signature]</i>
79	S2032532	SNEHA S NADAKUR	39	40	<i>[Signature]</i>
80	S2032535	SOUMYA HADAPAD	35	42	<i>[Signature]</i>
81	S2032538	SUNIL			
82	S2032539	SUPRIYA	42	45	<i>[Signature]</i>
83	S2032540	SUPRIYA GAYAKAWAD	39	42	<i>[Signature]</i>
84	S2032543	ULFATH SALEEM BALAGANUR	43	45	<i>[Signature]</i>
85	S2032544	V VIDYAPRASAD	46	47	<i>[Signature]</i>
86	S2032545	VASUDEV	49	48	<i>[Signature]</i>
87	S2032546	VIDYASHREE	45	46	<i>[Signature]</i>
88	S2032548	VIJAYALAXMI SAYABANNA POOJARI	45	47	<i>[Signature]</i>
89	S2032549	VINOD VIJAYKUMAR DESAI	42	44	<i>[Signature]</i>
90	S2032551	VISHWANATH DATTATREY PATTAR	43	45	<i>[Signature]</i>
91	S2032552	VISHWANATH KUMBAR	44	46	<i>[Signature]</i>
92	S2032553	VISHWANATH YATNOOR	46	48	<i>[Signature]</i>
93	S2032554	YUVARAJ	48	49	<i>[Signature]</i>
94	S2035651	NIYA ANJUM HOSAMANI	46	47	<i>[Signature]</i>
95	S2090012	KAVERI ITAGATTI	42	43	<i>[Signature]</i>

Head
Dept. of Physics
G.P.P. Arts, Commerce & V.V.C. College

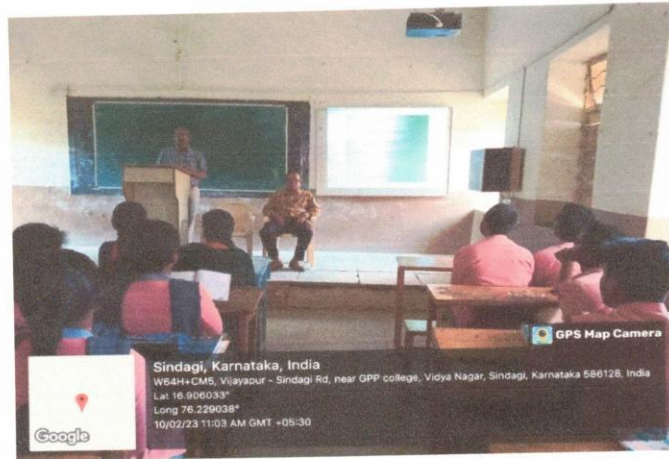
Coordinator IQAC
G.P.P. Arts, Commerce & V.V.C. College
SALIMATH Sc. Co'

Principal,
G. P. Porwal Arts, Comm &
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STANDGL-596179, College Code-596179

SPVVS'S
G.P.PORWAL ARTS, COMMERCE AND V.V. SALIMATH SCIENCE COLLEGE
SINDGI-586128 DIST: VIJAYAPUR

DEPARTMENT OF PHYSICS

VALEDICTORY OF CERTIFICATE COURSE: 2022-23



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Head
Dept. of Physics
G.P. Arts, Commerce & V.V.S. Science
College, SINDAGI - 586 128.

SLM
Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College
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D
Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 1000



SPVVSS

**G. P. Porwal Arts, Commerce & V. V. Salimath Science
College, SINDGI- 586 128**

Dist: Vijayapur

State: Karnataka



(Accredited with 'B' Grade by NAAC)

(Affiliated to Rani Channamma University, Belagavi)



**IQAC Initiative
DEPARTMENT OF PHYSICS**

CERTIFICATE

This is to certify that Kumar/ Kumari.....
of B.Sc. has successfully completed 30 hrs Certificate Course in "PREPARATION OF POWER
SUPPLY" during the year 2022-23


HOD


Coordinator


Principal