

**B.L.D.E. Association's  
S.B. ARTS AND K.C.P. SCIENCE COLLEGE,  
VIJAYAPUR**



**Department of Physics & Electronics**

**VALUE ADDED COURSE ON  
REGULATED POWER SUPPLY**

**BATCH-II**

**2019-20**

**(For B.Sc Physics & Electronics)**


B.L.D.E. Association's  
S.B. ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR

Department of Physics & Electronics

VALUE ADDED COURSE

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Head  
Department of Physics  
S.B.Arts & K.C.P.Science College  
Vijayapur-586102

  
IQAC, Co-ordinator  
S.B.Arts & K.C.P.Science College,  
Vijayapur.

  
Principal,  
S.B. Arts and KCP Science College  
VIJAYAPUR

B.L.D.E. Association's  
**S.B. ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR**  
Department of Physics & Electronics

**Value added Course for B.Sc Physics & Electronics**

**Course Title:** Regulated Power Supply

**Course Code:** SBKCP PHY01

**AIM**

To ensure excellent standards that would secure them international acclimation and leadership in tremendous challenging world.

To developing the overall personality of its students by making them not only excellent professionals but also good individuals with understanding and regard for human values.

**OBJECTIVES:**

To provide additional learners-centric graded skill oriented technical training with primary objectives of improving the employability skill.

To provide students an understanding of expectations of industry.

To provide an opportunity to develop inter-disciplinary skills.

To identify and develop the talents of students community in both curricular and extra-curricular areas.

**VISION:**

To be a centre of excellence through the process of self evaluation and continual renewal in all our endeavours, namely, learning, teaching, research, consultancy and other related services.

**MISSION:**

We strive towards equipping young people with value based holistic education to provide them a participative and growth oriented ambience.

**I. SYLLABUS****Total hours allotted : 30 hours**

**Unit I:** Basic elements (Resistor, Inductor & Capacitor) & its working. Colour coding of resistor & current rating of resistance. Transformers its principal working, types of transformer current rating of transformer. Multimeter & testing of components using multimeter

4 hours

**Unit II:** Instantaneous current time period, frequency, wavelength, peak or maximum amplitude, peak to peak value, effective current or RMS value of current & voltage, the average current & Voltage, power in ac ckt. Phase & phase difference. Inductive reactance & capacitive reactance.

4 hours

**Unit III:** Working of half wave, full wave & bridge rectifier. Rectifier with capacitor filter (shunt capacitor filter), with series inductor filter, LC filter &  $\pi$ -section filter. Ripple factor, efficiency & voltage regulation for each filter.

6 hours

**Unit IV: Zener diode:** Its working & characteristics, zener diode is used as regulated power supply. Design consideration with one example. Concept of IC, Three pin IC regulator block diagram, 78xx series & 79xx series. Dual power supply.

6 hours



**Practicals:** Five practical's of two hour duration

10 hours

**List of experiments**

1. Half wave, full wave & bridge rectifier
2. Rectifier with capacitor filter (shunt capacitor filter)
3. Rectifier with LC filter &  $\pi$ -section filter.
4. Characteristics, zener diode & used as regulated power supply.
5. Dual power supply.

**Note:**

1. Experiments are of two hours duration.
2. Five experiments to be performed.

**Reference books**

- 1) Solid state electronics by Agarawal & Agarawal
- 2) Basics electronics by B.K. Bagade & Singh
- 3) Principales of electronics by Malivno
- 4) Electricity & magnetism by Murgeshan
- 5) Electricity & magnetism by Brijjal & shubruman

**II. Duration of the Course:**


Theory of twenty hours and Practical ten hours **Total 30 Hours**

**V. Evaluation :**

Students will be evaluated through the examination conducted by the physics department at the end of the course and they will be awarded course certificate accordingly.



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DEPARTMENT OF PHYSICS & ELECTRONICS


Date: 20-12-2019

## Value Added Course

### Notice

Our Department is conducting "Value added course" (30 hours duration) on "Regulated Power Supply" for B.Sc. Students in Physics & Electronics during the year 2019-20. Interested Students give their names to Head of the Department on or before 25-12-19.

Certificate will be issued to students after completing the Value Added Course from the College.

  
Head of the Department.  
Head  
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DEPARTMENT OF PHYSICS & ELECTRONICS

*Value Added Course – Regulated power supply*

List of the faculty

2019-20

Batch - II

Sl.No	Name of the staff
1	Prof. B. G. Mirji
2	Prof. S Y Achakanalli
3	Prof. C N Chougulae
4	Prof. N D Adigonde
5	Prof. M.S. Yadagiri
6	Prof. A B Patil
7	Dr. Anil B. Naik



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S.B ARTS AND K.C.P SCIENCE COLLEGE, VIJAYAPUR  
DEPARTMENT OF PHYSICS & ELECTRONICS  
Value Added Course –Regulated power supply  
ADMISSION LIST 2019-20 Batch-II

Sl. No	Roll No.	Name of the student
1	217	Netra D. Kovalli
2	207	Chaitra S. Utagi
3	262	AKshata P. Jangamshetti
4	239	Gurusangamma R. Y
5	242	Susmita G.S
6	312	Arphia L. Kamalapurka
7	198	Kamalabai S. Yadawad
8	234	Sushmita S. Patrimath
9	235	Sumangala N. Hiremath
10	199	Pooxnima M. Kumbhar
11	299	Soundarya M. Malagatti
12	208	Vaishnavi. P. Kulkarni
13	293	Pallavi.C. Ganganagowdar
14	250	Soundarya D. Tragard
15	297	Vaishnavi B. Sandimani
16	294	Shilpa B. Patil
17	190	Pooja S. Hiremath
18	255	G. D. Chavan
19	278	Laxmi R. Hitnalli
20	191	Pallavi S. Doddi
21	212	Chaitra K. Patil
22	290	Bhagyashree K. Mannur
23	228	Vaishali. P. Kamble
24	276	Kavya S. Muradi
25	216	Deepa S. Gidde
26	218	Deeksha Ramapur
27	286	Shweta Pujari
28	298	Bhagyashree Sajjan
29	271	Tanuja M. Hatti



Sl. No	Roll No.	Name
30	227	Bhagyashree Hiremath
31	214	Savita B. Nayanegali
32	305	Akshata B. Biradar
33	215	Kavita S. Biradar
34	303	Akshata. B. Aski
35	272	Vishwanath R. Biradar
36	280	Praveen G. Angadi
37	275	Kumar S. Wadegar
38	222	Amit B. Angadi
39	236	Samath V. Hugar
40	209	Nagaraj V. Shirshyad
41	261	Yuvrajagouda Biradar
42	200	Eranesh B. Ningapur
43	304	Ningappa A. Mankanapur
44	304	Ningappa A. Mankanapur
45	225	Samath S. Banagar
46	206	Farhan D. Nadaf
47	285	Nitish Gulaganji
48	279	Akshata K. Rathod
49	319	Shruti S. Gadyal
50	323	Rohini I. Hiremath



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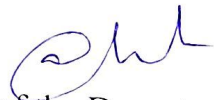
Date: 30-12-2019

**Value Added Course**

**Notice**

It is here by informed that the "Value added course" (Regulated Power Suppl) theory & practicals will commence from 3-1-2020 for the academic year 2019-20.

Students those who are selected, attend the classes regularly without fail.

  
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Value Added Course

Time Table 2019-20

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5.00pm To 6.00 pm					Theory 1	Theory II	
9.00 am To 11.00 am							Practical



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Sl. No	Roll No.	Name of the student	3-1-20	4-1-20	10-1-20	11-1-20	17-1-20	18-1-20	24-1-20	25-1-20	31-1-20	1-2-20	7-2-20	8-2-20	14-2-20	15-2-20	21-2-20	22-2-20	28-2-20	29-2-20	6-3-20	7-3-20
36	280	Praveen. G. Angadi	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
37	275	Kemas. S. wadeyar	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
38	222	Armit B. Angadi	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
39	236	Sampath. V. Hugar	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
40	209	Nagaraj. v. Shirashyed	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
41	261	Anurajagouda B. radco	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
42	200	Ganesh B. Nigapur	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
43	220	Nitishsing pattar	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
44	304	Klingappa. A. Malawar	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
45	225	Sannanath. S. Banagan	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
46	206	Farhan. D. Nadaf	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
47	235	NITISH GULAGANSI	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
48	279	Akshata. B. Rathod	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R
49	319	Shrutli. S. Gadyal.	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli	Shrutli
50	323	Rohini. I. Himemath	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

  
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Sl. No	Roll No.	Name	5-1-20	12-1-20	19-1-20	26-1-20	2-2-20	9-2-20	16-2-20	23-2-20
30	227	Bhagyashree. H. Hemath	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>
31	214	Sauita. B. Nayanegali	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>
32	305	Akshata. B. Biradar	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>
33	215	Kaushika. S. Biradar	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>
34	303	Akshata. B. ASki	A-B-A	A-B-A	A-B-A	A-B-A	A-B-A	A-B-A	A-B-A	A-B-A
35	272	Vishwanath. R. Biradar	V.R.B	V.R.B	V.R.B	V.R.B	V.R.B	V.R.B	V.R.B	V.R.B
36	280	Praveen. G. Angadi	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>	P <sub>2</sub>
37	275	Kumar. S. wadeyar	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>	K <sub>2</sub>
38	222	Amit B. Angadi	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>	A <sub>2</sub>
39	236	Sampath. V. Hugar	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>
40	209	Nagaraj. V. Shivashyad	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>
41	261	Yuvrajogendra Biradar	Y <sub>2</sub>	Y <sub>2</sub>	Y <sub>2</sub>	Y <sub>2</sub>	Y <sub>2</sub>	Y <sub>2</sub>	Y <sub>2</sub>	Y <sub>2</sub>
42	200	Ganesh. B. Ningapur	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>
43	304	Ningappa. A. Mankanapur	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>
44	304	Ningappa. A. Mankanapur	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>
45	225	Saharath. S. Banagan	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>
46	206	Fayhan. D. NADAF	F <sub>2</sub>	F <sub>2</sub>	F <sub>2</sub>	F <sub>2</sub>	F <sub>2</sub>	F <sub>2</sub>	F <sub>2</sub>	F <sub>2</sub>
47	285	NIJISH GULGANJI	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>	G <sub>2</sub>
48	279	Akshata. K. Rothod	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R	A.K.R
49	319	Shrutika. S. Gadyal	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>	S <sub>2</sub>
50	323	Rohini. I. Hirenmath	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>

  
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**DEPARTMENT OF PHYSICS & ELECTRONICS**

**NOTICE**

Date: 14-3-2020

Due to pandemic COVID-19, it is here by informed to all the B.Sc students (Batch-II) those who have enrolled their names for Value Added Course are promoted on the basis of attendance and involvement during classes.



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**Department of Physics & Electronics**

**VALUE ADDED COURSE 2019-20**  
**Batch-II**

**MARKS LIST**

S.No	Roll No	Name of the Students	Marks		
			Theory	Practical	Total
1	217	Netra D. Kovalli	90	50	140
2	207	Chaitra S. Utagi	85	44	129
3	262	Akshata P. Jangamshetti	65	43	108
4	239	Gurusangamma R. Y	71	42	113
5	242	Susmita G.S	92	50	142
6	312	Aspita L. Kamalapurka	88	46	134
7	198	Kamalabai S. Yadavad	70	45	115
8	234	Sushmita S. Patrimath	86	43	129
9	235	Sumangala N. Hiremath	78	41	117
10	199	Poornima M. Kumbhar	73	40	113
11	299	Saundarya M. Malagatti	71	43	114
12	208	Vaishnavi P. Kulkarni	92	40	132
13	293	Pallavi C. Gangamagoudar	85	50	135
14	250	Saundarya D. Iragond	73	48	121
15	297	Vaishnavi B. Sandimani	72	47	119
16	294	Shilpa B. Patil	71	45	116
17	190	Pooja S. Hiremath	81	44	125
18	255	G. D. Chavan	95	45	140
19	278	Laxmi B. Hitnalli	92	42	134
20	191	Pallavi S. Doddi	85	47	132
21	212	Chaitra K. Patil	82	46	128
22	290	Bhagyashree K. Mannur	71	43	114
23	228	Vaishali P. Kamble	92	47	139
24	278	Kavya S. Muradi	72	41	113
25	216	Deepa S. Gidde	81	50	131
26	218	Deeksha Ramapur	71	45	121
27	286	Shweta Pujari	90	50	140

S.No	Roll No.	Name of the Students	Marks		
			Theory	Practical	Total
28	298	Bhagyashree Sajjan	96	50	146
29	271	Tanuja M. Patti	78	45	123
30	227	Bhagyashree Hiremath	80	46	126
31	214	Savita B. Nayanegali	92	50	142
32	305	Ashata B. Biradar	95	50	145
33	215	Kavita S. Biradar	87	50	137
34	303	Akshata B. Aski	85	47	132
35	272	Vishwanath R. Biradar	71	40	111
36	280	Praveen R. Angadi	90	50	140
37	275	Kumar S. Wadeyar	95	50	145
38	222	Amit B. Angadi	70	40	110
39	236	Sampath V. Hugar	85	44	129
40	209	Nagesh V. Shirshad	80	45	125
41	261	Yuvrajagonda Biradar	75	40	115
42	200	Ganesh B. Ningapur	91	50	141
43	304	Ningappa A. Manganapur	70	40	110
44	304	Ningappa A. Manganapur	87	43	130
45	225	Samath S. Banagar	74	40	114
46	206	Farhan D. Nadeaf	95	50	145
47	285	Nitish Gulaganji	95	50	145
48	279	Akshata K. Rathod	87	43	130
49	319	Shruti S. Gadyal	85	44	129
50	323	Rohini I. Hiremath	71	40	111



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**DEPARTMENT OF PHYSICS & ELECTRONICS**

## **Value Added Course on Regulated Power Supply**

### **Report on Course Outcome**

Our Department has conducted Value added course for B.Sc students (Batch-II) on Regulated Power Supply for the academic year 2019-20. The duration of the certificate course is 30 hrs. Theory and practical classes were conducted for 50 students who have enrolled their names for the course.

A regulated power supply is an embedded circuit; it converts unregulated AC (Alternating Current) into a constant DC (Direct Current). With the help of a rectifier it converts AC supply into DC. Its function is to supply a stable voltage, to a circuit or device that must be operated within certain power supply limits. A regulated power supply with multiple regulators can offer multiple output voltages for operating different devices. Regulated power supplies maintain the voltage at the desired level and are ideal for almost all types of electronic devices because of the smooth, steady supply of voltage they offer.

The use of regulated power supply is very simple. When it is in use, attention should be paid to the polarity of the required DC voltage. If a positive voltage needs to be output, the output end of the DC voltage regulated power supply "-" connects with the "ground" end of the electrical equipment, and the terminal "+" should be connected to the required positive voltage terminal. If you need to output negative voltage, you need to reverse the above wiring method. Before electrifying, measure it with a multimeter to check whether the output voltage meets the requirements, so as to avoid excessive voltage damage to the electrical equipment.

Advantages for Regulated power supplies include simplicity, reliability, low noise levels and low cost. These power supplies, also known as linear regulators (LR), have a very simple design in that they require few components making it an easy device for design engineers to work with

**Head**  
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**Principal,**  
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Internal Quality Assurance Cell Initiative

## VALUE ADDED COURSE

### Certificate



This is to certify that Mr./Ms. Bhagyashree K Manour

has Completed the Value Added Course on Regulated Power supply

Conducted by the Department of Physics during the

Year 2019 - 20

  
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S.B.Arts & K.C.P.Science College  
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**Head of the Department**



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Internal Quality Assurance Cell Initiative

**VALUE ADDED COURSE**

*Certificate*




This is to certify that Mr./Ms. Vaishali P Kamble

has Completed the Value Added Course on Regulated Power supply

Conducted by the Department of Physics during the

Year 2019-20

  
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**VALUE ADDED COURSE**

*Certificate*




This is to certify that Mr./Ms. Pallevaru S. Doddi

has Completed the Value Added Course on Regulated Power supply

Conducted by the Department of Physics during the

Year 2019-20

  
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## VALUE ADDED COURSE

### Certificate



This is to certify that Mr./Ms. Laxmi R Hitnall?


has Completed the Value Added Course on Regulated Power Supply

Conducted by the Department of Physics during the


Year 2019-20

  
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**VALUE ADDED COURSE**

*Certificate*

This is to certify that Mr./Ms. Chaitra K. Patel

has Completed the Value Added Course on Regulated Power Supply

Conducted by the Department of Physics during the

Year 2019 - 20

  
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