

**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-I
2017-18**

(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-586103.


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


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

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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 & π -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 & π -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.


Theory Paper of 60 marks

Practical of 40 marks

Total 100 marks


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DEPARTMENT OF PHYSICS & ELECTRONICS

Date: 5-7-2017

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 2017-18. Interested Students give their names to Head of the Department on or before 10-7-2017.

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


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DEPARTMENT OF PHYSICS & ELECTRONICS

Value Added Course – Regulated power supply

List of the faculty

2017-18

Batch - I

Sl.No	Name of the staff
1	Prof. S. B. Pattadkal
2	Prof.P.S.Koraddi
3	Prof. S Y Achakanalli
4	Prof. C N Chougulae
5	Prof. N D Adigonde
6	Prof. S S. Kori
7	Prof. M.S. Yadagiri
8	Prof. A B Patil


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DEPARTMENT OF PHYSICS & ELECTRONICS

Value Added Course – Regulated power supply

ADMISSION LIST 2017-18 Batch-I

Sl. No	Roll No.	Name of the student
1	1	Naveen Rudagi
2	2	Shrinivas Talikoti
3	3	Achyut, Kembhavi
4	4	Rajashankar B. Babannavar
5	5	Amasiddh Pujari
6	6	Pooja S. Madh
7	7	Ningaraj Jumnal
8	8	Sachin D. Girigoudar
9	9	Sanju M. Totager
10	10	S.K. Kumbhar
11	11	Preeti R. Jadhav
12	12	Pooja G. Hladapad
13	13	Tasmeeya, Bagawan
14	14	Jyoti Chandakavate
15	15	Basantaparkhi, Nandur
16	16	Renuka, Teli
17	17	Supriya, Durg
18	18	Laxmi, Damanalli
19	19	Chaitra, Bivadar
20	20	Vijayalaxmi, Karjal
21	21	Sushmita, Sajjan
22	22	Sonali R. Shenche
23	23	Pavitra R. Sacalalli
24	24	Megha S. Kapali
25	25	Pavitra G. Hladaparti
26	26	Jyoti M. Madagudi
27	27	Neelavati S. Prandi
28	28	Dharappa R. Gajji
29	29	Roopa, Agalar

Sl. No	Roll No.	Name
30	30	Megha. A. Talapwar
31	31	Anand. M. Arali
32	32	Amit. M. Duse
33	33	Siddaram. N. Loni
34	34	Shouti Arawalku
35	35	Soujanya R. Kamdagal
36	36	RS. Dhairagond
37	37	Shouti. G. Agarwal
38	38	Shashti B. Aigalimash
39	39	Vishwanath. Gangashetti
40	40	Vishwanath. Shiroor
41	41	Sagar. Beradar
42	42	Xf Yogesh. W. Danikol
43	43	Pradeep. D. Teli
44	44	Pavitra. S. Gunaki
45	45	Rekha. N. Tidgundi
46	46	Shilpa. S. Rathod
47	47	Akshata. Deelagi
48	48	Roopa. R. Rathod
49	49	Shashikala. Hadimani
50	50	Arati. R. Mandapur.


HOD
Head

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DEPARTMENT OF PHYSICS & ELECTRONICS

Date: 18-7-2017

Value Added Course

Notice

It is here by informed that the "Value added course" (Regulated Power Suppl) theory & practicals will commence from 21-7-2017 for the academic year 2017-18.

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



Head of the Department.

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Value Added Course – Regulated power supply

Time Table 2017-18

Batch -I


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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Department of Physics
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Vijavapur-586105.

Sl. No	Roll No.	Name of the student	21-7-17	22-7-17	28-7-17	29-7-17	4-8-17	5-8-17	11-8-17	12-8-17	18-8-17	19-8-17	25-8-17	26-8-17	1-9-17	2-9-17	8-9-17	9-9-17	15-9-17	16-9-17	22-9-17	30-9-17
36	36	Rakshita.S.Bhairagend	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
37	37	Shruti.G.Agasar	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
38	38	Srashti.B.Agalmath	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
39	39	Vishwanath.Grangashetti	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
40	40	Vishwanath shivoo	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
41	41	SOGAR.Biradar.	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB	SBB
42	42	Yogesh.W.Banikol	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
43	43	Pradeep.D.Teli	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
44	44	Pavitra.S.Cunaki	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
45	45	Rekha.N.Tidagundi	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
46	46	Shilpa.S.Rathod	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
47	47	Akshatha.Belagi	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
48	48	Roopa.R.Rathod	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
49	49	Shashikala.Hadmani	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP
50	50	Aarati.R.mamadapa	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP	SGP


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Exam Conducted

2

Sl. No.	Roll No.	Name	23-7-17	30-7-17	6-8-17	13-8-17	20-8-17	27-8-17	3-9-17	1-10-17
30	30	Vinod.S. Vedashetty	Binod	Binod	Binod	Binod	Binod	Binod	Binod	Binod
31	31	Anand.M. Asali	And	And	And	And	And	And	And	And
32	32	Amit.M. BISE	And	And	And	And	And	And	And	And
33	33	Siddaram.N. Loni	And	And	And	And	And	And	And	And
34	34	Shruti.Amawattu	And	And	And	And	And	And	And	And
35	35	sojanya.R. kandagal	And	And	And	And	And	And	And	And
36	36	Rakshita.S. Bhairagond	And	And	And	And	And	And	And	And
37	37	Shruti.G. Agasar	SGA	SGA	SGA	SGA	SGA	SGA	SGA	SGA
38	38	srashti.B. Ayyalimath	SA	SA	SA	SA	SA	SA	SA	SA
39	39	Vishwanath.N. Gargashetti	And	And	And	And	And	And	And	And
40	40	Vishwanath shivooor	And	And	And	And	And	And	And	And
41	41	sogor. Bisador.	S-BB	SBB	S-BB	S-BB	SBB	S-BB	SBB	S-BB
42	42	Yogesh.W. Banikol	And	And	And	And	And	And	And	And
43	43	Pradeep.D. Teli	And	And	And	And	And	And	And	And
44	44	Pavitra.S. Gunaki	And	And	And	And	And	And	And	And
45	45	Rekha.N. Tidagandi	And	And	And	And	And	And	And	And
46	46	Shelpa.S. Rathod	And	And	And	And	And	And	And	And
47	47	Akshatha.Beelagi	And	And	And	And	And	And	And	And
48	48	Roopa.R. Rathod	And	And	And	And	And	And	And	And
49	49	Shashikala.Hadimani	And	And	And	And	And	And	And	And
50	50	Asrati.R. Mamadapur	And	And	And	And	And	And	And	And

Handwritten signature

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DEPARTMENT OF PHYSICS & ELECTRONICS
Value Added Course Examination 2017-18

Batch- I


Date: 21-09-2017

Notice

The value added course theory & practical examinations will be conducted on the below dates. All the students attend both the exams without fail.]

	Date	Time
Theory	30- 09 - 2017	9am to 12 noon
Practical	01-10 - 2017	9am to 12 noon


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DEPARTMENT OF PHYSICS & ELECTRONICS

Value Added Course Examination

Subject code: SBKCPPHY01

Time: 03 hour

Max. Marks: 60

Answer any six questions:

(10x6=60)

- 1a). Explain the identification of carbon resistor value by colour code.
- b). Give the principle of transformer. Explain its working.
2. Describe the testing of electronic components using multimeter.
3. Explain the terms
Amplitude, Time period, Frequency, Wave length, Phase,
4. Explain the terms
a) RMS value of current, Power of an ac circuit, 2x2=4
b) Inductive reactance, capacitive reactance 3x2=6
- 5a). Explain the working of Half wave rectifier with neat diagram.
- b) Explain the working of capacitor filter with neat diagram.
- 6a). Explain the working of Full wave rectifier with neat diagram.
- b) Explain the working of Inductor filter with neat diagram.
7. Explain the working & characteristics of Zener diode with suitable diagram.
8. Explain the working of
a) 78xx IC
b) Dual power supply



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DEPARTMENT OF PHYSICS & ELECTRONICS

Value Added Course Practical Examination


List of Question Slips

Subject code: SBKCPPHY01


Time: 03 hour

Max. Marks: 40

1. Set up half wave & full wave rectifiers using semiconductor diodes. Study the variation of voltage with load. Calculate percentage of regulation.
2. Set up full wave bridge rectifier. Study the variation of voltage with load. Calculate percentage of regulation.
3. Set up full wave rectifier with capacitor filter. Study the variation of voltage with load. Calculate percentage of regulation.
4. Set up full wave rectifier with Inductor-capacitor filter. Study the variation of voltage with load. Calculate percentage of regulation.
5. Study the characteristics of zener diode. Mark the break down voltage & break down region on the graph . Calculate resistance of zener diode.
6. Set up dual power supply. Study its dual characteristics.


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Department of Physics & Electronics

VALUE ADDED COURSE 2017-18
Batch-I

MARKS LIST

Roll No.	Name of the Students	Marks		
		Theory	Practical	Total
1	Naveen Rudagi	47	33	80
2	Shrinivas, Talikoti	44	35	79
3	Achyut Kumbhari	53	36	89
4	Rajashankar, B. Basannavar	48	34	82
5	Amasiddh. Pyjasi	34	30	64
6	Pooja S. Math	37	32	69
7	Ningaraj Jumnal	45	35	80
8	Sachin, D. Girigoudar	55	38	93
9	Sanju, M. Totager	48	34	77
10	S.K. Kumbhar	46	33	79
11	Preeti, R. Tadav	54	38	92
12	Pooja, G. Hadapad	50	36	86
13	Tasmeeza, Bagawan	36	34	70
14	Jyoti, Chandakavate	49	35	84
15	Basavaxling Nandur	57	37	94
16	Reeruka, Teli	42	35	77
17	Supriya, Durg	40	33	73
18	Laxmi, Bamanalli	47	34	81
19	Chaitra Bisadar	54	37	91
20	Vijayalaxmi, Kasjol	52	36	88
21	Sushmita, Sajjan	44	34	78
22	Sonali, R. Shinde	47	33	80
23	Parvita, R. Sasalatti	49	35	84
24	Megha, S. Kapali	55	38	93
25	Parvita, G. Madhapati	52	36	88
26	Jyoti, M. Madagudi	50	34	84
27	Netravati, S. Bandi	47	35	82

Roll No.	Name of the Students	Marks		
		Theory	Practical	Total
28	Dhaseppa, R. Gejji	55	38	93
29	Roopa, Agasar	53	36	89
30	Megha, A. Talawar	40	32	72
31	Anand, M. Arali	45	33	78
32	Amit, M. Bise	50	34	84
33	Siddaram, N. Loni	36	32	68
34	Shouti Arawattu	47	35	82
35	Soujanya, R. Kandagal	54	37	91
36	R. S. Bhairagond	48	34	82
37	Shouti, G. Agasar	45	33	78
38	Srashti, B. Aigalimash	40	32	72
39	Vishwanath, Gangashetti	55	37	92
40	Vishwanath, Shivoo	48	34	82
41	Sagar, Bixadar	53	36	89
42	Yojesh, W. Banikol	45	34	79
43	Pradeep, D. Teli	56	38	94
44	Pavitra, S. Gunaki	37	35	72
45	Rekha, N. Tidagundi	30	32	62
46	Shilpa, S. Rathod	47	34	81
47	Akshata, Beelagi	54	35	89
48	Roopa, R. Rathod	38	34	72
49	Shashikala, Hadimani	49	33	82
50	Arati, R. Mamadapur	53	36	89



Head

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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-I) on Regulated Power Supply for the academic year 2017-18. 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

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B. L. D. E. Association's

S.B. ARTS & K.C.P. SCIENCE COLLEGE, VIJAYAPUR

(Re-Accredited by NACC at 'A' Level in 3rd Cycle)

Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate



This is to certify that Mr./Ms. Arati R. Mannaclapur
has Completed the Value Added Course on Regulated Power supply
Conducted by the Department of Physics during the
Year 2017-18


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


Co-Ordinator, IQAC

Principal,
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Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate



This is to certify that Mr./Ms. Shashikala Hadimani

has Completed the Value Added Course on Regulated Power Supply

Conducted by the Department of Physics during the

Year 2017 - 18


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Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate

This is to certify that Mr./Ms. Shilpa S. Rathod

has Completed the Value Added Course on Regulated Power Supply

Conducted by the Department of Physics during the

Year 2017 -18


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Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate




This is to certify that Mr./Ms. Akshata Beelagi

has Completed the Value Added Course on Regulated Power Supply

Conducted by the Department of Physics during the

Year 2017 - 18


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VALUE ADDED COURSE

Certificate



This is to certify that Mr./Ms. Roopa R. Rathod

has Completed the Value Added Course on Regulated Power supply

Conducted by the Department of Physics during the

Year 2014 - 18


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Department of Physics & Electronics

**VALUE ADDED COURSE ON
REGULATED POWER SUPPLY
BATCH-II
2017-18
(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

CONTENTS

Sl.No	Title
1	Syllabus
2	Admission Notice
3	List of faculty
4	List of Students
5	Time table
6	Student Attendance
7	Exam. time table notice
8	Question paper -Theory
9	Question paper -Practical
10	Marks list
11	Report on Course Outcome


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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 & π -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 & π -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.

Theory Paper of 60 marks

Practical of 40 marks

Total 100 marks


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DEPARTMENT OF PHYSICS & ELECTRONICS


Date: 25/12/17

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 2017-18. Interested Students give their names to Head of the Department on or before 31/12/17.

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


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DEPARTMENT OF PHYSICS & ELECTRONICS

Value Added Course – Regulated power supply

List of the faculty

2017-18

Batch - II

Sl.No	Name of the staff
1	Prof. S. B. Pattadkal
2	Prof.P.S.Koraddi
3	Prof. S Y Achakanalli
4	Prof. C N Chougulae
5	Prof. N D Adigonde
6	Prof. S S. Kori
7	Prof. M.S. Yadagiri
8	Prof. A B Patil



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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 2017-18 Batch-II

Sl. No	Roll No.	Name of the student
1	1	Vijayalaxmi Galagali
2	2	PV Patil
3	3	SR Hiremath
4	4	ND Biradar
5	5	PM Bilijadar
6	6	Aspita T. Jadhav
7	7	Yashoda Nimbal
8	8	Rv Nagur
9	9	BN Sajjan
10	10	SS Nalavade
11	11	BK Hitnalli
12	12	PR Kulkarni
13	13	Deepa Poddar
14	14	Dhavanii Utachan
15	15	Snaha Salapoor
16	16	Yasmeen Y Patel
17	17	Akshata BD
18	18	Vijayalakshori
19	19	Neelamma
20	20	Re Hiremath
21	21	ST Sonwad
22	22	Anita Antkalagi
23	23	AB Patil
24	24	CC Hiremath
25	25	Deepa T Antkalagi
26	26	Aysha Y Bevanur
27	27	VA Kumari
28	28	Priyanka R Dasari
29	29	VS Umadi

Sl. No	Roll No.	Name
30	30	Shilpa.S.Telasang
31	31	Veesresh.I.Kodekal
32	32	Shivaputra.M.Jakareddy
33	33	Shridhar.B.Ttkangihal
34	34	Laxman.S.Alabal
35	35	Aakash.K.Hanchinaka
36	36	Preeti.S.Hipparagi
37	37	Pallavi.A.Akkirwad
38	38	Sushra.S.Safihal
39	39	Akshata.S.Patil
40	40	Dharati.S.Gedi
41	41	Scunmya Kakkalameli
42	42	A.I.Katte
43	43	Ashwini.I.Dadiger
44	44	Savita.S.Mali
45	45	S.K.Patil
46	46	V.G.Devooor
47	47	Shaila.B.Nagooor
48	48	Jaideep.H.Kulagedi
49	49	Shilpa.R.Patil
50	50	Keerti.C.Kulkarni


 HOD
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DEPARTMENT OF PHYSICS & ELECTRONICS

Date: 5/1/18

Value Added Course

Notice

It is here by informed that the "Value added course" (Regulated Power Suppl) theory & practicals will commence from 12/1/18 for the academic year 2017-18.

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


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DEPARTMENT OF PHYSICS & ELECTRONICS

Value Added Course – Regulated power supply


Time Table 2017-18

Batch -II

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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S.B.Arts & K.C.P.Science College
Vijayapur-586103.

(3)

Exam
Conducted

Sl. No.	Roll No.	Name of the student	12-1-18	13-1-18	19-1-18	20-1-18	26-1-18	27-1-18	2-2-18	3-2-18	9-2-18	10-2-18	16-2-18	17-2-18	23-2-18	24-2-18	2-3-18	3-3-18	9-3-18	10-3-18	16-3-18	7-4-18	
36	36	Preeti .S. Hipparagi	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
37	37	Pallavi .A. Akkiwood	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
38	38	Sushma .S. Sathnal	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
39	39	Abshata .S. Patil	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
40	40	Bharati .S. Gedi.	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
41	41	Soumya Kakkalameli	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
42	42	Annapurna .I. Kaiti	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
43	43	Ashwini .I. Bodiger	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
44	44	Savita .S. Mali	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
45	45	Suvarna .K. Patil	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
46	46	Vanishri .G. Devoor	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
47	47	Shaila .B. Naganoor	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
48	48	Jaiideep .D. Kulkarni	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
49	49	Shilpa .R. Patil	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
50	50	Keesiti .C. Kulkarni	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK


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Sl. No	Roll No.	Name	14-1-18	21-1-18	28-1-18	4-2-18	11-2-18	18-2-18	25-2-18	8-4-18
30	30	Shilpa. Telasang.	SP	SP	SP	SP	SP	SP	SP	SP
31	31	veedesh.T. Kodakamath	28	21	28	28	28	28	28	28
32	32	Shinaputsa.M.jakareddy	SP	SP	SP	SP	SP	SP	SP	SP
33	33	Shridhar.B. Jitanghal	SP	SP	SP	SP	SP	SP	SP	SP
34	34	Laxman. S. Mabal	SP	SP	SP	SP	SP	SP	SP	SP
35	35	Akash.H. Hanchinala	SP	SP	SP	SP	SP	SP	SP	SP
36	36	preeti. S. tipparagi.	SP	SP	SP	SP	SP	SP	SP	SP
37	37	Pallavi. A. Akkivad	SP	SP	SP	SP	SP	SP	SP	SP
38	38	Sushma. S. Salikal	SP	SP	SP	SP	SP	SP	SP	SP
39	39	Akshata. S. Patil	SP	SP	SP	SP	SP	SP	SP	SP
40	40	Bharati. S. Gedi.	SP	SP	SP	SP	SP	SP	SP	SP
41	41	Soumya Kakkamelali	SP	SP	SP	SP	SP	SP	SP	SP
42	42	Annapurna. I. Kotte	SP	SP	SP	SP	SP	SP	SP	SP
43	43	Ashwini.I. Badiger	SP	SP	SP	SP	SP	SP	SP	SP
44	44	savita. S. mali	SP	SP	SP	SP	SP	SP	SP	SP
45	45	Suvarna. K. Patil	SP	SP	SP	SP	SP	SP	SP	SP
46	46	Varishri. G. Devoor	SP	SP	SP	SP	SP	SP	SP	SP
47	47	Shaila. B. Naganoor	SP	SP	SP	SP	SP	SP	SP	SP
48	48	Jaideep. d. Kulageri	SP	SP	SP	SP	SP	SP	SP	SP
49	49	Shilpa. R. Patil.	SP	SP	SP	SP	SP	SP	SP	SP
50	50	Keerthi. C. Kulkarni	SP	SP	SP	SP	SP	SP	SP	SP

Exam Conducted

2

[Signature]

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DEPARTMENT OF PHYSICS & ELECTRONICS
Value Added Course Examination 2017-18


Batch- II

Date: 03-04-2018

Notice

The value added course theory & practical examinations will be conducted on the below dates. All the students attend both the exams without fail.]

	Date	Time
Theory	07-04-2018	9am to 12 noon
Practical	08-04-2018	9am to 12 noon


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DEPARTMENT OF PHYSICS & ELECTRONICS

Value Added Course Examination

Subject code: SBKCPPHY01

Time: 03 hour

Max. Marks: 60

Answer any six questions:

(10x6=60)

- 1a). Explain the identification of carbon resistor value by colour code.
- b). Give the principle of transformer. Explain its working.
2. Describe the testing of electronic components using multimeter.
3. Explain the terms
Amplitude, Time period, Frequency, Wave length, Phase,
4. Explain the terms
 - a) RMS value of current, Power of an ac circuit, 2x2=4
 - b) Inductive reactance, capacitive reactance 3x2=6
- 5a). Explain the working of Half wave rectifier with neat diagram.
- b) Explain the working of capacitor filter with neat diagram.
- 6a). Explain the working of Full wave rectifier with neat diagram.
- b) Explain the working of Inductor filter with neat diagram.
7. Explain the working & characteristics of Zener diode with suitable diagram.
8. Explain the working of
 - a) 78xx IC
 - b) Dual power supply



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DEPARTMENT OF PHYSICS & ELECTRONICS

Value Added Course Practical Examination

List of Question Slips

Subject code: SBKCPPHY01

Time: 03 hour

Max. Marks: 40

1. Set up half wave & full wave rectifiers using semiconductor diodes. Study the variation of voltage with load. Calculate percentage of regulation.
2. Set up full wave bridge rectifier. Study the variation of voltage with load. Calculate percentage of regulation.
3. Set up full wave rectifier with capacitor filter. Study the variation of voltage with load. Calculate percentage of regulation.
4. Set up full wave rectifier with Inductor-capacitor filter. Study the variation of voltage with load. Calculate percentage of regulation.
5. Study the characteristics of zener diode. Mark the break down voltage & break down region on the graph. Calculate resistance of zener diode.
6. Set up dual power supply. Study its dual characteristics.


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Department of Physics & Electronics

VALUE ADDED COURSE 2017-18
Batch-II

MARKS LIST

Roll No.	Name of the Students	Marks		
		Theory	Practical	Total
1	Vijayalaxmi Galagali	53	37	90
2	P. V. Patil	48	34	82
3	S. R. Hiremath	37	32	69
4	N. D. Biradar	45	35	80
5	P. M. Bilijadar	55	36	91
6	Arpita. T. Tadhav	49	33	82
7	Yashoda. Nimbhal	39	34	73
8	R. V. Nagus	56	38	94
9	B. N. Sajjan	44	30	74
10	S. S. Nalavade	33	33	66
11	B. K. Hitnalli	47	35	82
12	P. R. Kulkarni	53	38	91
13	Deepa. Paddar	44	35	79
14	Bhavani. Udachan	45	34	79
15	Sneha. Salapoor	54	36	90
16	Yasmeen. M. Patel	38	33	71
17	Akshata. B. D.	47	35	82
18	Vijayalakshmi	42	34	76
19	Neelamma	37	32	69
20	P. G. Hiremath	46	35	81
21	S. I. Sonnad	44	36	80
22	Anita. Ankalagi	55	37	92
23	A. B. Patil	53	34	87
24	C. C. Hiremath	48	33	81
25	Deepa. I. Ankalagi	37	35	72
26	Ayestha. Y. Bevanur	45	34	79
27	V. A. Kumari	54	36	90

Roll No.	Name of the Students	Marks		
		Theory	Practical	Total
28	Priyanka R. Dabari	47	35	82
29	V.S. Umadi	44	34	78
30	Shilpa S. Telasang	55	38	93
31	V. I. Kadekal	43	34	77
32	S. M. Jakareddy	45	33	78
33	S. B. Ittangihal	38	32	70
34	Laxman S. Albal	36	34	70
35	Akash K. Hanchinjala	46	36	82
36	Preeti S. Hipparagi	57	38	95
37	Pallavi A. Akkiwad	52	35	87
38	S. S. Satihal	39	33	72
39	Akshata S. Patil	44	34	78
40	Dharadi S. Gedi	40	32	72
41	Soumya Kakkalameli	37	30	67
42	A. I. Katti	55	37	92
43	Ashwini T. Dadegor	46	37	83
44	Savita S. Mali	39	34	73
45	S. K. Patil	48	35	83
46	Vanishri G. Devoor	38	33	71
47	Shaila B. Naganoor	54	37	91
48	Jaideep H. Kulageri	52	35	87
49	Shilpa R. Patil	46	35	81
50	Keeerti C. Kulkarni	51	37	88

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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 2017-18. 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


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B. L. D. E. Association's

S.B. ARTS & K.C.P. SCIENCE COLLEGE, VIJAYAPUR

(Re-Accredited by NACC at 'A' Level in 3rd Cycle)


Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE


Certificate



This is to certify that Mr./Ms. Shilpa R. patil
has Completed the Value Added Course on Regulated power supply
Conducted by the Department of physics during the
Year 2017-18


Head of the Department


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Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate



This is to certify that Mr./Ms. Shaila . B. Naganoor

has Completed the Value Added Course on Regulated power Supply

Conducted by the Department of Physics during the

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Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate



This is to certify that Mr./Ms. V. G. Devoor


has Completed the Value Added Course on Regulated power supply

Conducted by the Department of Physics during the

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Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate




This is to certify that Mr./Ms. S.K. patil

has Completed the Value Added Course on Regulated power supply

Conducted by the Department of physics during the

Year 2017-18


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VALUE ADDED COURSE

Certificate

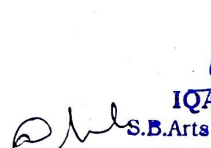



This is to certify that Mr./Ms. Savitri S. mali


has Completed the Value Added Course on Regulated power supply

Conducted by the Department of Physics during the

Year 2017-18


Head of the Department


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