Date: 28/8/2021

To,
The Principal
Karnatak Arts, Science and Commerce College, Bidar.

Sub: Request to grant permission to start Certificate course on "Inverter and UPS" in the month of January 2020-21. Reg.

Respected Sir,

As per the guidelines issued by IQAC, we would like to start the Certificate course on "Inverter and UPS" for the academic year 2020-21 with intake of 15 students. Please permit us to start the add-on course and do the needful.

Thanking You.

Course In-charge

Department of Electronics

Head

Dept. of Electronics

Ternatab Arts Sci. &Com. College Bidar

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Estd 1970 (Affiliated to Gulbarga University, Kalaburagi) College with Potential for Excellence Status Awarded by UGC New Delhi

ISO 9001 : 2015



Minutes of Meeting of Institutional Board of Studies for Add-on Course on

Inverter and Ups

The institutional BOS meeting of the Department of Electronics for the add-on course on "Inverter and Ups" held on 2nd January 2020 in Electronics department at 10:30 am.

INSTITUTIONAL BOS

Sl.No	Name	Institute	Designation
1.	Sri. Rajendra Biradar	Head, Department of	Chairman
		Electronics, Karnatak	
		Arts, Science and	
	Anny pagament the dates like	Commerce College,	1
0.1		Bidar.	
2.	Dr.M.Ş.Chelva.	Associate Professor,	Member
	and the section to be a fill of	Department of Electronics	Internal Expert
3.	Sri.A.V.Chikkamanur	Associate Professor,	Member
		Department of	Internal Expert
	and the second s	Electronics.	
4.	Sri.S.V.Biradar.	Associate Professor,	Member
		Department of	Internal Expert
		Electronics.	
5.	Dr. Giriga Mangalgatty.	Assistant Professor and	External Expert
=0.0		HOD of Electronics,	
		Govt.First grade college,	
	O meta	Bidar.	

In the beginning of the meeting the Chairman of the Institutional BOS welcomed all the members and briefed them about the progress of the Department of Electronics. The members expressed their highly appreciation and satisfaction about the courses and activities of the Department.

E-mail: principalkascc@gmail.com

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Fax: 08482-226503

Cell: 9343834635

Visit us @ www.kascc.in.net



Save Environment Save Earth





ರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಜೀವರ

KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR



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Golden Jubilee Celebration - 1970-2020

The Institutional BOS discussed and resolved the following items

Item 1. Starting of the add - on course on Inverter and Ups.

The BOS discussed the item and resolved to start the add -on course from January 2020.

Item 2. Approval of the Syllabus for add-on course.

The BOS discussed and approved the syllabus for the add-on course on Inverter and Ups.

Item 3. Criteria for admission, regulation and policies to run the course and exam pattern.

The BOS discussed and approved the criteria for admission and resolved that the student should have completed successfully 10+2 with science faculty, should be currently in B.Sc Course with Electronics as a subject in Karnatak college, Bidar. In addition to this BOS also finalized the rules and regulations to smooth conduct of course and pattern.

Meeting of BOS is concluded with vote of thanks by Sri Rajendra Biradar, Head Department of Electronics.

Members present

1. Sri. Rajendra Biradar

2. Dr.M.S.Chelva.

3. Sri.A.V.Chikkamanur

4. Sri.S.V.Biradar.

5. Dr. Giriga Mangalgatty.

putti [External member]

IQAC CO-ORDINATOR

Rarnatak Arts Scie

ammeree College, Bit

Cell: 9343834635

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E-mail: principalkascc@gmail.com

Fax: 08482-226503

Hyderabad Road, Karnataka State - 585401.

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K R E SOCIETY'S

KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE, BIDAR

Certificate Course on

INVERTER AND UPS

Preamble

Our college is affiliated to Gulbarga University, Kalaburagi. There is no flexibility in modifying the curriculum to fulfill the basic requirement of industry. Establishing collaboration with M/S Bhavani Industries, Bidar: a pioneer industry in design and construction of UPS and Inverter, curriculum is designed with their basic requirements. We have an MoU with said industry where students and staff exchange programmes are organized.

Curriculum mainly concentrates on understanding working principle of Invert and UPS. Further, an attempt has also been made to impart the knowledge of stabilizer.

The course is 30Hrs of 2 credits and duration of four months.

It is expected that students becomes self entrepreneur and get opportunity

in UPS and Inverter Industries.

Exam Pattern: The exam is of 50 Marks of MCQ type

IQAC Coordinato Karnatak Arts, Science and Commerce dollage,

Electropics

DAR-585401

FOR THE ACADEMIC YEAR 2020-21



Karnatak Arts, Science & Commerce College, Bidar



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DPARTMENT OF ELECTRONICS

Syllabus: UPS and Inverter

Chapters Name	Contents	Teaching Hours
Understanding working principle of Inverter and UPS		20
Understanding working principle of stabilizers	Need of stabilizers, working principle, types of stabilizer, auto circuit of stabilizer, cut and automatic stabilizer, study of control circuit stabilizer.	10

References:

- Basic Electronics-Repair and maintenance of power supply, inverter and UPS-NIMI Published by National Instructional Media Institute, Chennai.
- 2. Switching power supply design, 3rd Ed. By Abraham Pressman.
- 3. Uninterruptable power supply by Alexander King, William Knight McGraw Hill Professional.

Course In-charge

Dept. of Electronics

Largetak Arts Sci. & Com. Gollege Bidar

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College With Potential for Excellence

Department of Electronics

Date: 01/09/2021

NOTICE

All the students are hereby informed that, the Department of Electronics is starting the add-on Course on "Inverter and UPS" from the 06/09/ 2021; interested students can enroll their names on or before 03/09/2020 in the Department of Electronics.

Course In-charge

Dept. of Electronics Marnatak Arts Sci. &Com. College Bidar

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Karnatak Arts, Science and Commerce College, Bidar



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Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses IAS/IPS/NET/SET Coaching Classes _Year_ 2020 -Electorojes Name of the Department Ameer Ansar my Name of the Student __ Ansarmiya Father's/Guardian's Name _ Year Month **Date** Date of Birth 0 Address for Correspondence: Airdel tower, Amlapur Semester/Class: Register No Percentage of previous semester: Contact No Aamerserikar u @gmail, com E-Mail ID

Invertor And UPS

Signature of the Student

Course to be Joined: ____

HOD/CoordinatoD:
Dept. of Electronics
Empatal Asis Sci. &Com. College Bidge

ಕರ್ನಾಟಕ ಕಲಾ. ವಿಜ್ಞಾನ ಕರಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ.





College With Potential for Excellence

Add on Course on Inverter and UPS

List of Students (2021)

Sl. No.	Register Number	Name of the student
1	1947099	Krutika Kulkarni
2	1947107	Abdul Asad
3	1947131	Ameer Ansar Miya
4	1947132	Syeda Ramla Fatima
5	1947144	Vishwa Indrashekhar
6	1947154	Arusha Tirkey
7	1947164	Mahesh Dasharath
8	1947177	Namrata Patil
9	1947187	Mahesh Shantakumar
10	1947191	Sangamesh Rajkumar Swamy
11	1947194	Abdul Farooq
12	1947208	Pooja P
13	1947210	Sudharani Kodge
14	1947215	Anisha
15	1947230	Madhu

Course In-charge

HOO IQAC CO-ORDINATOR IQAC Coordinator

Dept. of Electromalak Arts, Science and Commerce College,

PRINCIPAL





College With Potential for Excellence

Department of Electronics

Date: 04/09/2021

DPARTMENT OF ELECTRONICS

Time-Table for 2020-21

Subject: "Inverter and UPS"

All the students of Certificate Course are here by informed to attend Classes regularly as per the time table displayed on the notice board (Even semester time table).

Marnatak Arts Sci. &Com. College Bidar

Course In charge





College With Potential for Excellence

DPARTMENT OF ELECTRONICS

Add on course on Inverter and UPS

Time-Table-2021

Monday

2.30 to 3.30 pm

Friday

3.30 to 4.30 pm

Tuesday

2.30 to 3.30 pm

Saturday:

3.30 to 4.30 pm

Course In-charge

IQAC Coordinator

Karnatak Arts. Science and Commerce College.

Dept. of Electronics

Remaint Arts Sci. &Com . College





College With Potential for Excellence

Department of Electronics

Date: 02/11/2021

NOTICE

All the students enrolled in Add-on Course on "Inverter and UPS" are hereby informed to attend the examination scheduled on 10/11/2021 from 9-10AM.

Course In-charge

Dept. of Electronics

Marmatak Arts Sci. &Com. College Blda रिकार का विकास



Karnatak Arts, Science & Commerce College, Bidar

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College With Potential for Excellence



Add-on course INVERTER AND UPS

Date: 10-11-2021

Max. Marks: 50

Question Paper

Time: 60 Minutes

- 1. What is the minimum permissible single phase working if the declared voltage is 240V as per ISI?
 - a) 233 b)228 c) 216 d)211
- 2. The full for of UPS is
 - a)Undersized Power Supply b) Uninterrupted Power Supply
 - c) Uneven power Supply
- d) Unwanted Power Supply
- 3. What will be the backup time of a UPS if it is backed by a 150 Ah, 12V battery driving a load of 150W?
 - a) 14h b) 10h c)16h d)12h
- 4. What type of power supply is mandatory for a life support system?
 - a) PDMS b) UPS c) stabilizer d) RPS
- 5. What device has to be added for running three phase 5HP motor from the available single phase source?
 - a)STAR /DELTA starter b) Inverter/UPS
 - c) DOL starter
- d) Not possible
- 6. Which component makes an Online UPS different from Offline UPS?
 - a) Charge controller b) Battery c) Static switch d)AC/DC rectifier
- 7. Which is frequency converter?
 - a) Rectifier b) DC chopper c) Cyclo converter d) DC to AC converter
- 8. Which electronic circuit is used in a automatic voltage stabilizer to produce constant output voltage?
 - a) Rectifier b) Amplifier c)Oscillator d)Feedback circuit
- 9. Which feedback network is used for automatic voltages stabilizer?
 - a) Current divider network
- b)Voltage divider network
- b) Tapped transformer network d) Resistance temperature detector network
- 10. Which electrical device is actuating the voltages in a stepped voltage stabilizer?
 - a) Auto stat b) Output transformer c) Over voltage relay d) Under voltage relay

	11. What is the effect of internal resistance of a discharged cell?
	a) Increase b) Decrease c) Becomes zero d) Remain same
	12. Calculate the voltage and ampere/hour, if four cells rated as 1.5v and 8AH are in parallel?
	a) 6V and 24 AH b) 3V and 16AH c) 4.5V and 8AH d) 1.5V and 32AH
	13. Which is the function of an inverter?
	a) Converts AC voltage into DC voltage b) Converts DC voltage into AC voltage
	b) Converts DC voltage into higher DC voltage d) Converts AC voltage into higher AC voltage
	14. Which is the application of automatic stepped voltage stabilizer?
	a) Geyser b) Grinder c) <u>Television</u> d) Pump motor
	15. What is the purpose of output transformer in inverter?
	a) Step up input AC b) Step down input AC
	c) Step up AC from amplifier d) Step down AC from amplifier
	16. Which type of output transformer is used in automatic voltage stabilizer?
	a)Auto transformer b)Static transformer
	c) Ring core type transformer d) Ferrite core type transformer
	17. Which principle the constant voltage transformer works?
	a) Self-induction principle b) fall in potential principle
	c) Ferro-resonant principle d) Mutual induction principle
	18. Which transformer is used in servo voltage stabilizer?
	d) Step up to the step of
	c) <u>Torodial autotransformer</u> d) Constant voltage transformer 19. Which instrument is used to check short circuit faults in electronic circuit in voltage
	stabilizer?
	a) Ammeter b)Voltmeter c)Ohmmeter d)Multimeter
	20. What are the important stages in a simple inverter? b) Oscillator and amplifier stages
	a) Oscillator and rectifier stages
	c) Amplifier and transformer output stages d) Oscillator, amplifier and transformer
	output stages
	21. Where square wave inverters are used?
) General lighting
	22. How the hard sulphation defect in secondary cell can be prevented?
,	22. How the hard sulphation defect in section , b) Provide freshening charge
	a) Provide trickle charging
	c) Provide constant current charging d) Provide constant potential method charging
	22. Which part of LIPS supplies continuous output in case of input voltage failure.
	a) Battery unit b) Inverter unit c) Rectifier unit d) Controller unit
	a) Dattery with

	24. What is effect of loading of the
	24. What is effect of loading of the cell, the current strength falls and becomes zero? a) Buckling b) Polarization c) Local action d) Amalgamation
	25. What is the reason for having low back up time in UPS?
	a) Fault in inverter circuit b) Battery is short circuited
	c) Mains earthing is not proper d) Assessment of the control of th
	c) Mains earthing is not proper d) Ampere hour(AH) capacity of battery is not sufficient 26. Which of the following is used with critical lead like hearth lea
	26. Which of the following is used with critical load like hospital intensive care unit where a power failure can cause lot of inconvenience?
	a) UPS b) LPS c) SMPS d)SCS
	27. UPS finds application in
	a) Battery powered vehicle b) Electric traction c) HVDC d)Computer power supply
	28. An online UPS requires
	a) Inductor b) Capacitor c)Battery d) Resistor
	29. Phase information of UPS is of no use during
	a) voltage dip b) long sags c) interruptions d)All of the above
	30. Draw the electrical symbol of an inverter
	31. How the backup time of UPS can be increased
	a) Increase the VA rating of UPS b) Increase the AH capacity of battery
	c) Decrease the AH capacity of battery d) Maintain battery terminal voltage always 90%
	of rating
	32. What is the reason for tripping the UPS with full load?
	a) Main supply failure b) Incorrect over load settings
	c) Battery charger input fuse blown out d) Loose connection in battery terminal
	33. Which is the cause for the fault if the output of voltage of UPS is higher than normal?
	a) Battery get short circuited b) Defective feedback circuit
	c) Input voltage is very high d) Relay points are joined together
	34. A capacitive load in voltage source inverters generates
	a)Small current spikes and can be reduced by using an inductive filter
	b) Large current spikes and can be increased by using an inductive filter
	c)Small current spikes and can be increased by using an inductive filter
	d) Large current spikes and can be reduced by using an inductive filter
	35. The ratio of DC power output to applied input AC power in the rectifier is known as
	35. The ratio of DC power output to applied input the power in the rectifier is known as
	a) Ripple factor b) Rectifier efficiency c) Peak Inverse Voltage d) Ripple frequency
3	36 is the process of the solder molecules combining with the molecules of the
	metals being soldered.
	a) Soldering b) Desoldering c) Wetting d) Tinnin
	a) Soldering b) Desoldering c) Wetting d) Tinnin

and Industry can be and
37. Inductor can be used as
a) filter b) regulator c) rectifier d)amplifier
38. working principle of transformer is based on
a) mutual inductance b)self inductance c) coupling d) none 39. UPS are categorized as
a) offline ups b) standby ups and online or inline ups c) line interactive d) <u>b & c</u> 40. VA= volts*ammeter
a) true b) <u>false</u> 41. Static UPS requires a) only rectifier b) only inverter c) <u>both inverter and rectifier</u> d)none of the mentioned
42 is used in the rotating type UPS system to supply the mains.
 a) DC motor b) Self excited DC generator c)Alternator d)Battery bank 43 is used for critical loads where temporary power failure can cause a great deal
of inconvenience.
a) SMPS b) UPS c)MPS d)RCCB
44. SMPS is used for
a)obtaining controlled ac power supply b) obtaining controlled dc power supply
c) storage of dc power d) switch from one source to another
45 No discontinuity is observed in case of
a) short break static LIPS configuration b)long break static UPS configuration
c) no break static UPS configuration d) rotating type UPS configuration
AC Chass the incorrect statement.
to the same it is a consitive to input voltage variations b) SMPS has low input ripple
c) SMPS is smaller as compared to rectifiers d)SMPS is a source of radio interference
47. SPMS are based on the principle.
17. String and the Integral control of Chopper d)MOSFET
is reason behind the name 'Parallel' inverter? (parallel capacitor)
49. The output waveform of the parallel inverter is(squarewave)
50. The meaning of the 180 degree mode of inverter operation is(All
50. The meaning of the 100 degree mode of mode
semiconductor devices condusts for 180 deg)





College With Potential for Excellence

DPARTMENT OF ELECTRONICS

Add on course on Inverter and UPS

Examination Attendance - 2020-21

D+ 1 10/11/2021

		Examination Attendance - 2020 22	Ci-maturo
Sl. No.	Register Number	Name of the student	Signature
1	1947099	Krutika Kulkarni	Kulbasar
2	1947107	Abdul Asad	
3	1947131	Ameer Ansar Miya	Ally
4	1947132	Syeda Ramla Fatima	Sylvania
5	1947144	Vishwa Indrashekhar	
6	1947154	Arusha Tirkey	Jan Lake
7	1947164	Mahesh Dasharath	<u>July e</u>
8	1947177	Namrata Patil	Mr. Tank
9	1947187	Mahesh Shantakumar	Justan
10	1947191	Sangamesh Rajkumar Swamy	CAN
11	1947194	Abdul Farooq	
12	1947208	Pooja P	logia
13	1947210	Sudharani Kodge	
14	1947215	Anisha	frista
15	1947230	Madhu	Madhu







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Add on course on Inverter and UPS

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l. No. Register Number		Register Number Name of the student			
1947099		Krutika Kulkarni	35		
2	1947107	Abdul Asad	32		
3 1947131		Ameer Ansar Miya	31		
4	1947132	Syeda Ramla Fatima	28		
5	1947144	Vishwa Indrashekhar	29		
6	1947154	Arusha Tirkey	32		
7	1947164	Mahesh Dasharath	29		
		Namrata Patil	40		
8	1947177 1947187	Mahesh Shantakumar	42		
10	1947191	Sangamesh Rajkumar Swamy	32		
11	1947194	Abdul Farooq	27		
12	1947208	Pooja P	22		
13	1947210	Sudharani Kodge	37		
14	1947215	Anisha	42		
15	1947230	Madhu	32		

Course In-charge

IQAC CO-ORDINAT

Dept. of Electronics IQAC Coordinator

Dept. of Electronics Rouence and Commerce College, Mataka Arts Sci. & Com. College

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KRE SOCIETY'S KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE BIDAR

DEPARTMENT OF ELECTRONICS

RESPONSE SHEET

1) Name of the course: Inverter and UPS.

2) Name of the student:

madhu.

3) Class in which studying:

B.3c. VI 3000

4) Reg. No. of student:

1944230 -

5) Date of exam:

10/11/2021.

Note: All the students are informed to put Right mark for the correct answer in the appropriate circle

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ABCD	A B C D	A B C D		
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SIGNATURE OF THE INVEGILATOR

SIGNATURE OF THE H. O.D.

Dept. of Electronics

Marmatak Arts Sci. &Com. College Bldss



Karnatak Arts, Science & Commerce College, Bidar

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College With Potential for Excellence



Add-on course Report and Outcome Analysis (2020-21)

Name of the Course: Add –on course on Inverter and UPS

Name of the Department: Electronics

Name of the BOS Chairman: Dr. Rajendra Biradar(Assoc. Prof. and Head Dept. of Electronics)

No. of the Students Enrolled: 15

Date of BOS Meeting: 2 January, 2020

Date of Start of Course: 6 Sept, 2021

Date of End of Course: 9 Nov, 2021

Our college is affiliated to Gulbarga University, Kalaburagi. There is no flexibility in modifying the curriculum to fulfill the basic requirement of industry, to bridge this gap, the department of Electronics started the add-on course on Inverter and UPS by collaborating with M/S Bhavani Industries, Bidar: a pioneer industry in design and construction of UPS and Inverter, curriculum was designed with their basic requirements. We have a MoU with said industry where students and staff exchange programmes were organized.

Curriculum mainly concentrates on understanding of working principle of Invert and UPS. Further, an attempt has also been made to impart the knowledge of stabilizer. Students also learned the industrial skills by visiting the workshop of Bhavani Industry.

The course was 30 contact hrs of 2 credits, total 15 students actively participated in the course and certificates were distributed after conducting the MCQ based course end examination.

Outcome of the Course: The course helps to gain the entrepreneur and industrial skills which helps the students to become self entrepreneur and get opportunity in UPS and Inverter Industries.

Dept of 'ectronics

Exemptal Arts Sci. &Com. College Bides

Vice-Principal & IQAC. Coordinator

Karnatek Arts, Science &

PRINCIPAL PRINCIPAL nataka Arts Sci. & Com. College BIDAR-585401 HPP ON COURSE ON "INVERTER AND K.R.E. UPS" (YEar 2020-21) Karnatak Arts, Science And Students Attendance Register

_				6	06	07	67	13	13	14	14	20	20	21	21	22	21.
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