

Date: 17/12/2019

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 . 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 2019-20 with intake of 15 students. Please permit us to start the Certificate course and do the needful.

Thanking You.


Course in charge


Head

Department of Electronics
R.O.D.
Dept. of Electronics
Karnatak Arts Sci. & Com. College Bidar



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KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR

Estd 1970

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College with Potential for Excellence Status Awarded by UGC New Delhi

ISO 9001 : 2015



Golden Jubilee Celebration - 1970-2020

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 Electronics, Karnatak Arts, Science and Commerce College, Bidar.	Chairman
2.	Dr.M.S.Chelva.	Associate Professor, Department of Electronics	Member Internal Expert
3.	Sri.A.V.Chikkamanur	Associate Professor, Department of Electronics.	Member Internal Expert
4.	Sri.S.V.Biradar.	Associate Professor, Department of Electronics.	Member Internal Expert
5.	Dr. Giriga Mangalgatty.	Assistant Professor and HOD of Electronics, Govt.First grade college, Bidar.	External Expert

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.

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Fax : 08482-226503

Cell : 9343834635
Visit us @ www.kascc.in.net



Save Environment Save Earth





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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.

[External member]

IQAC CO-ORDINATOR

PRINCIPAL
Karnatak Arts Science &
Commerce College, BIDAR
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DEPARTMENT OF ELECTRONICS


Syllabus: Inverter and UPS - 2019-20


Chapters Name	Contents	Teaching Hours
Understanding working principle of Inverter and UPS	Introduction of Inverter, UPS, Block diagram and their working, square wave generator, PWM, DC to AC converter and their Specifications	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 f stabilizer.	10

References:

1. 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


HOD
Dept. of Electronics
Karnatak Arts Sci. & Com. College Bidar


PRINCIPAL
Karnatak Arts. Sci. & Com. College
B I D A R - 585 401

K R E SOCIETY'S
KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE, BIDAR

Certificate Course on

INVERTER AND UPS

Preamble

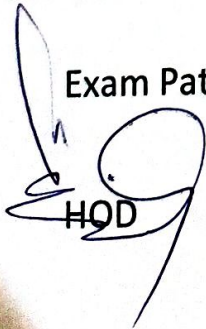
Our college is affiliated to Gulbarga University, Kalaburagi. There is no flexibility in modifying the curriculum to fulfill the basic requirement of industry. Establishing collaboration with M/S Bhavani Industries, Bidar: a pioneer industry in design and construction of UPS and Inverter, curriculum 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


HOD


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Department of Electronics





Date: 03/01/2020

NOTICE

All the students are hereby informed that, the Department of Electronics is starting the Certificate Course on "Inverter and UPS" from the 08/01/ 2020; interested students can enroll their names on or before 08/01/2020 in the Department of Electronics.


Course Incharge


HOD:
Dept. of Electronics
Karnatak Arts Sci. & Com. College Bidar


Principal
ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು
ಪಾಲಿಟೆಕ್ನಿಕ್ ಮಹಾವಿದ್ಯಾಲಯ, ಬಿದರ



KRE Society's

Karnatak Arts, Science and Commerce College, Bidar



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College with Potential for Excellence

ADMISSION FORM

Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses
&
IAS/IPS/NET/SET Coaching Classes

Name of the Department ELECOMMERCE Year 2019-2020

Name of the Student Suresha

Father's/Guardian's Name mallappa

Date of Birth

Date

Month

Year

28

09

1999



Address for Correspondence :

Suresh S/o mallappa

At) Hippaigaom.

Post)

T & Dist: Bidar.

Semester/Class :

B.Sc. IV Semester

Register No :

1947270

Percentage of previous semester :

60%

Contact No :

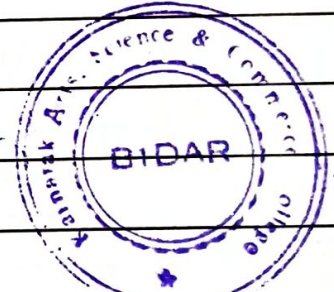
7259494967 / 6363752631

E-Mail ID :

Sureshmallappa19@gmail.com

Course to be Joined:

INVERTER and UPS



Suresh

Signature of the Student

[Signature]

HOD/Coordinator

[Signature]
Principal

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ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ್



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Inverter and UPS

List of Students (2019-20)

Sl. No.	Register Number	Name of the student
1	1947131	Ameer/ Ansarmiyya
2	1947132	Syeda Ramla Fatima / Syed Sha MuheebHussain
3	1947135	Priyanka/ Prakash
4	1947144	Vishwa /Indrashekar Swami
5	1947147	Hodamani Santosh /Baburao
6	1947177	Namrata /Gurunath Patil
7	1947210	Sudharani Kodge/Rajkumar
8	1947249	Biradar Siddappa/Bhagwant
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10	1947270	Suresh /Mallappa
11	1947278	Dhannure Bharat/Krishnappa
12	1947286	Rekha /sharnappa
13	1947289	Leena /George Jhon
14	1947296	Anjali Bhangе/Dhanraj
15	1947307	Supriya /Dattatri


Course Incharge


HOD
Dept. of Electronics
Karnatak Arts, Science and Commerce College
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Department of Electronics



Date: 08/01/2020

DPARTMENT OF ELECTRONICS

Time-Table for 2019-20

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).

Course In charge



Karnatak Arts, Science & Commerce College, Bidar

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Department of Electronics

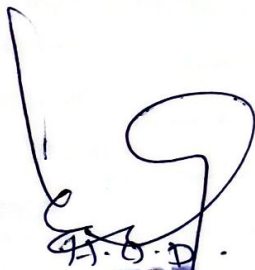



Date: 02/03/2020

NOTICE

All the students enrolled in Certificate Course on "Inverter and UPS" are hereby informed to attend the Preparatory Test scheduled on 07/03/2020 from 9-10AM.


Course In charge


HOD,
Dept. of Electronics
Karnatak Arts Sci. & Com. College Bidar


Principal
Karnatak Arts Sci. & Com. College
B I D A R - 585 401



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DEPARTMENT OF ELECTRONICS

Subject: Inverter and UPS

Examination Attendance - 2019-20

At 07/03/2020

Sl. No.	Register Number	Name of the student	Signature
1	1947131	Ameer/ Ansarmiyya	
2	1947132	Syeda Ramla Fatima / Syed Sha MuheebHussain	
3	1947135	Priyanka/ Prakash	
4	1947144	Vishwa /Indrashekar Swami	
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10	1947270	Suresh /Mallappa	
11	1947278	Dhannure Bharat/Krishnappa	
12	1947286	Rekha /sharnappa	
13	1947289	Leena /George Jhon	
14	1947296	Anjali Bhange/Dhanraj	
15	1947307	Supriya /Dattatri	

Invigilator



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CERTIFICATE COURSE : INVERTER AND UPS

Date : 07-03-2020

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 form 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 an 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 voltage stabilizer?
a) Current divider network b) Voltage divider network
c) 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
c) 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) Television 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?
a) Step up transformer b) Step down transformer
c) Torodial autotransformer 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?
a) Oscillator and rectifier stages b) Oscillator and amplifier stages
c) Amplifier and transformer output stages d) Oscillator, amplifier and transformer output stages
21. Where square wave inverters are used?
a) Computers b) TV receiver c) DVD players d) General lighting
22. How the hard sulphation defect in secondary cell can be prevented?
a) Provide trickle charging b) Provide freshening charge
c) Provide constant current charging d) Provide constant potential method charging
23. Which part of UPS supplies continuous output in case of input voltage failure?
a) Battery unit b) Inverter unit c) Rectifier unit d) Controller unit

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) Ampere hour(AH) capacity of battery is not sufficient
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 -----.
 a) Ripple factor b) Rectifier efficiency c) Peak Inverse Voltage d) Ripple frequency
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

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) b & c
40. VA= volts*ammeter
 a) true b) false
41. Static UPS requires _____
 a) only rectifier b) only inverter c) both inverter and rectifier 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 UPS configuration b) long break static UPS configuration
 c) no break static UPS configuration d) rotating type UPS configuration
46. Choose the incorrect statement.
 a) SMPS is less sensitive 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.
 a) Phase control b) Integral control c) Chopper d) MOSFET
48. -----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 semiconductor devices conducts for 180 deg)

27
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no

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: Sudharani Kodge
- 3) Class in which studying: B.Sc. IV sem.
- 4) Reg. No. of student: 1947210
- 5) Date of exam: 07/03/2020

38
50
Ajay

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

A B C D	A B C D	A B C D	A B C D	A B C D
✓ 1 ○ ○ ○ ○	✓ 11 ○ ○ ○ ○	✓ 21 ○ ○ ○ ○	✓ 31 ○ ○ ○ ○	✓ 41 ○ ○ ○ ○
✓ 2 ○ ○ ○ ○	✓ 12 ○ ○ ○ ○	✓ 22 ○ ○ ○ ○	✓ 32 ○ ○ ○ ○	✓ 42 ○ ○ ○ ○
✓ 3 ○ ○ ○ ○	✓ 13 ○ ○ ○ ○	✓ 23 ○ ○ ○ ○	✓ 33 ○ ○ ○ ○	✓ 43 ○ ○ ○ ○
✓ 4 ○ ○ ○ ○	✓ 14 ○ ○ ○ ○	✓ 24 ○ ○ ○ ○	✓ 34 ○ ○ ○ ○	✓ 44 ○ ○ ○ ○
✓ 5 ○ ○ ○ ○	✓ 15 ○ ○ ○ ○	✓ 25 ○ ○ ○ ○	✓ 35 ○ ○ ○ ○	✓ 45 ○ ○ ○ ○
✓ 6 ○ ○ ○ ○	✓ 16 ○ ○ ○ ○	✓ 26 ○ ○ ○ ○	✓ 36 ○ ○ ○ ○	✓ 46 ○ ○ ○ ○
✓ 7 ○ ○ ○ ○	✓ 17 ○ ○ ○ ○	✓ 27 ○ ○ ○ ○	✓ 37 ○ ○ ○ ○	✓ 47 ○ ○ ○ ○
✓ 8 ○ ○ ○ ○	✓ 18 ○ ○ ○ ○	✓ 28 ○ ○ ○ ○	✓ 38 ○ ○ ○ ○	48 ○ ○ ○ ○
✓ 9 ○ ○ ○ ○	✓ 19 ○ ○ ○ ○	✓ 29 ○ ○ ○ ○	✓ 39 ○ ○ ○ ○	49 ○ ○ ○ ○
✓ 10 ○ ○ ○ ○	✓ 20 ○ ○ ○ ○	✓ 30 ○ ○ ○ ○	✓ 40 ○ ○ ○ ○	50 ○ ○ ○ ○

Ajay
07/03/20

SIGNATURE OF THE INVEGILATOR

[Signature]

SIGNATURE OF THE H.O.D.
Dept. of Electronics
Karnatak Arts Sci. & Com. College Bidar



Karnatak Arts, Science & Commerce College, Bidar

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DPARTMENT OF ELECTRONICS

Subject: Inverter and UPS

MARKS-LIST OF PREPARATOY TEST

Sl. No.	Register Number	Name of the student	Marks obtained out of <u>50</u>
1	1947131	Ameer/ Ansarmiyya	35
2	1947132	Syeda Ramla Fatima / Syed Sha MuheebHussain	37
3	1947135	Priyanka/ Prakash	40
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10	1947270	Suresh /Mallappa	33
11	1947278	Dhannure Bharat/Krishnappa	32
12	1947286	Rekha /sharnappa	31
13	1947289	Leena /George Jhon	30
14	1947296	Anjali Bhangе/Dhanraj	33
15	1947307	Supriya /Dattatri	34


Course Incharge


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Dept. of Electronics
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Bidar


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IQAC Coordinator
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Course Incharge


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Add-on course Report and Outcome Analysis (2019-20)

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: 8 Jan, 2020

Date of End of Course: 14 Mar, 2020

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.

HOD,
Dept. of Electronics
Karnatak Arts Sci. & Com. College Bidar

IQAC
Vice-Principal &
IQAC. Coordinator
Karnatak Arts, Science &
Commerce College, Bidar

PRINCIPAL
Karnataka Arts Sci. & Com. College
BIDAR-585401

B.Sc. IV Semester

Karnatak Arts, Science And K.R.E. Students Attendance Register

Admission No.	Sl. No.	Name	Date													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1	Rekha Sharannappa														
	2	Abhannure Bharat														
	3	Ameer Ansarniya	A													
	4	Syeda Ramla Fatima	A													
	5	Suresh Mallappa														
	6	Priyanka Prakash														
	7	Hodmani Santosh														
	8	Biradar Siddappa	A													
	9	Supriya Dattatri	A													
	10	Bhuvaneshwari														
	11	Sudharani Kedage														
	12	Namrata Gurumath-p.														
	13	Anjali Bhanje	A													
	14	Vishwa Indrashekhar	A													
	15	Leena George	A													

HOD,
Dept. of Economics
Karnatak Arts, Sci. & Com. College Bidar

Signature of Lecturer with Date

Signature of H.O.D.

Society's Commerce College Bidar

For the Month of 2019-20

Date		Attendance																											
04	07	08	10	11	14	15	17	18	22	24	25	28	29	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
02	02	02	02	02	02	02	02	02	02	02	02	02	02	20	20	20	20	20	20	20	20	20	20	20	20	20	20		

Signature of H.O.D.

