

Date: 04/10/2017

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

Sub: Request to grant permission to start Certificate course on "Basics of Cellular Communication" for the academic year 2017-18- Reg.


Respected Sir,

As per the guidelines issued by IQAC, we would like to start the Certificate course on "Basics of Cellular Communication" for the academic year 2017-18 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
HOD:
Dept. of Electronics
Karnatak Arts Sci. & Com. College Bidar

K R E SOCIETY'S

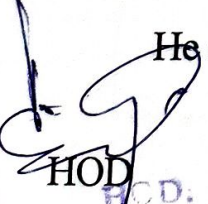
KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE, BIDAR

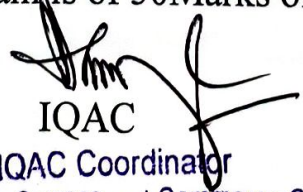
Certificate Course on
Basics of "Cellular Communication"

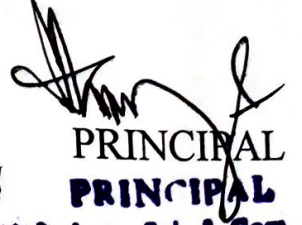
Preamble

Our College is affiliated to Gulbarga University Kalaburagi and we are running Regular university curriculum. The curriculum is not providing all local needs and Hence we thought of giving knowledge of local technical needs to our students. In this connection, Dept. has constituted local BOS and framed a syllabus suitable for our students and got approved in local BOS. The selection of students by inviting application from electronic stream and based on pre appeared graduation marks in electronic subjects .The course covers over view of cellular communication, concept of frequency use and frequency spectrum conservation, channel accommodation, hand off, multipath fading MIMO and CDMA etc. For curriculum completing we are taking classes for 30 Hrs of 2 credits. The course provides for students to become self entrepreneur and they find an opportunity in communication sector as technical assistants.

He exam pattern: The exam is of 50Marks of MCQ type.


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


IQAC
IQAC Coordinator
Karnatak Arts, Science and Commerce College,
BIDAR


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B I D A R - 585 401



Karnatak Arts, Science & Commerce College, Bidar

ESTD. 1970
(Affiliated to Gulbarga University)
College With Potential for Excellence
Department of Electronics



Date: 17/10/2017

Minutes of Meeting of institutional Board for Certificate Course on

Basics of Cellular Communication

The institutional BOS meeting of the Department for the Certificate Course on "Basics of Cellular Communication" is held on 17/10/2017 in Electronics Department at 10.30AM.

INSTITUTIONAL BOS

Sl.No.	Name of Member	Institute	Designation
1.	Sri. Biradar Rajendra	Associate Professor and Head, Department of Electronics, Karnatak Arts, Science and Commerce College, Bidar.	Chairman
2.	Sri. M. S. Chelva	Associate Professor, Department of Electronic	Member, Internal Expert
3.	Sri. A. V. Chikkamanur	Associate Professor, Department of Electronic	Member, Internal Expert
	Sri. S. V. Biradar	Associate Professor, Department of Electronic	Member, Internal Expert
	Dr. S. B. Gama	Associate Professor and Head, Department of Electronic, B. V. B. College, Bidar.	Member, External Expert

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

The institutional BOS discussed and resolved the following agendas.

Agenda 1. Start of the Certificate Course on "Basics of Cellular Communication".

Resolution: The BOS discussed the agenda 1 and resolved to start the said Certificate Course From the month of January 2018.

Agenda 2. Approval of syllabus for Certificate Course "Basics of Cellular Communication".





Resolution: The BOS discussed and approved the Syllabus for the said Certificate Course.

Agenda 3. Criteria for admission, regulation and policies to run the course pattern and Conduct of examination.


Resolution: The BOS discussed and approved the criteria for admission and resolved that the Student should have completed successfully 10+2 with Science faculty and Should be currently in B.sc Program with electronics as one of the subject of our College. In addition to this, BOS also discussed the rules and regulations to Smooth Conduct of course.


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

Members Present

1. Biradar Rajendra 
2. Sri M. S. Chelva
3. Sri. A. V. Chikkamanur 
4. Sri. S. V. Biradar 
5. Dr. S.B.Gama (External member) 


IQAC Co-Ordinator


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


Principal
ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು
ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ

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KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE, BIDAR

Certificate Course on
Basics of "Cellular Communication"

SYLLABUS

Max: 30 Hrs

Week 1: Overview of Cellular Systems and evolution of 2G/3G/4G.

Week 2: Cellular Concepts-Frequency reuse, Co channel and Adjacent channel Interference, C/I, Handoff, Blocking, Erlangen capacity.

Week 3: Wireless Propagation Part I-Link budget, Free Space path loss, Noise Figure of receiver.

Week 4: Wireless Propagation Part II-Multipath fading, Shadowing, Fading Margin, shadowing margin.

Week 5: Antenna Diversity.

Week 6: Wireless Channel Capacity.

Week 7: Necessities of Multiple input multiple outputs (MIMO) in Cellular Communication.

Week 8: Introduction of CDMA.


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College With Potential for Excellence

Department of Electronics



Date: 05/01/2018

NOTICE

All the students are hereby informed that, the Department of Electronics is starting the Certificate Course on Basics of Cellular Communication from the 16/01/ 2018; interested students can enrol their names on or before 12/01/2018 in the Department of Electronics.

Course Incharge

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

ಪ್ರಿನ್ಸಿಪಾಲ್

**ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು
ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ**



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 Electronics Year 2017-18

Name of the Student Saanya Deshmukh

Father's/Guardian's Name Basavaraj Deshmukh



Date of Birth

Date

Month

Year

03

06

1998

Address for Correspondence :

H.No. 17-4-125/2,
cmc colony, Master
Bidar

Semester/Class : Bsc VI

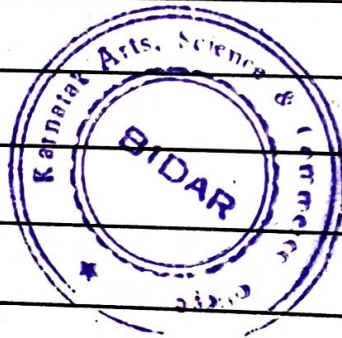
Register No : 1643150

Percentage of previous semester : 84% 0

Contact No : 9900477316

E-Mail ID :

Course to be Joined: "Bases of Cellular Communication"



Saanya
Signature of the Student

[Signature]
HOD/Coordinator

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


[Signature]
Principal
ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು
ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ

Basics of Cellular Communication

List of Students (2017-18)


Sl. No.	Register Number	Name of the student
1	1643005	Aditya C Pote
2	1643028	Soumya Baswaraj Deshmukh
3	1643044	Anand S Biradar
4	1643046	Shivayogi Virpakshayya
5	1643048	Kiran Mallikarjun
6	1643059	B. Ganesh
7	1643087	Lumure VushalReddy
8	1643096	Basvaprasad Navaling Patil
9	1643107	Priya Biradar
10	1643116	Arun Kantappa
11	1643133	Kalyani Shivraj
12	1643134	KushalRao BheemRao
13	1643152	Shilpa Rajkumar
14	1643161	Rajeshwari C
15	1643192	Divyashree Dhanraj


Course Incharge


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


IQAC CO-ORDINATOR


IQAC Coordinator
Karnatak Arts, Science and Commerce College,
BIDAR


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Department of Electronics



Date: 19/03/2018

DPARTMENT OF ELECTRONICS

Time-Table for 2017-18

Subject: Basics of Cellular Communication

All the students of Certificate Course are here by informed to attend
Classes regularly from 8-9am daily.


Course In charge



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Department of Electronics


Date: 23/03/2018

NOTICE

All the students enrolled in Certificate Course on "Basics of Cellular Communication" are hereby informed that, the course examination is scheduled on 02/04/2018 from 9-10AM.


Course In charge
HOD:

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


Principal
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ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ



DEPARTMENT OF ELECTRONICS

Subject: Basics of Cellular Communication

Date: 02/04/2018

Time: 1hour

Max.Marks:50

Answer all the questions carrying one mark each.

1. The modulation technique used for mobile communication systems during the world war II was
a) Amplitude modulation b) Frequency modulation c) ASK d) FSK
2. -----introduced Frequency Modulation for mobile communication systems in 1935.
a) Edwin Armstrong b) Albert Einstein c) Galileo Galilei d) David Bohm
3. The early FM push-to-talk telephone systems were used in
a) Simplex mode b) Half duplex mode c) Full duplex mode d) None of the above
4. World's first cellular system was developed by
a) Nippon Telephone & Telegraph b) Bellcore & Motorola
c) AT & T Laboratories d) Qualcomm
5. Carrier frequency of a TV remote control is in the range
a) Of infrared b) < 100 MHz c) < 1 GHz d) < 2GHz
6. Half duplex system for communication has
a) Communication in single direction
b) Communication in single direction at a time
c) Communication in both directions at the same time
d) None of the above
7. MIN stands for
a) Mobile identification number b) Mobile internet
c) Mobility in network d) None
8. The process of transferring a mobile station from one base station to another is
a). MSC b) Roamer c).Hand off d).Forward channel
9. PCN is
a) Wireless concept of making calls b) For receiving calls
c) Irrespective of the location of the user. D) All of the above.
10. 2G cellular network uses
a) TDMA/FDD b) CDMA /FDD d) Digital modulation formats d) All of the above
11. NADC is a 2G standard for
a). TDMA b) CDMA c) Both a & b d) None of the above
12. 2G CDMA standards – CDMA one supports up to
a) 8 users b) 64 users c) 32 users d) 116users
13. 2G standards support
a). Limited internet browsing b) SMS c) Both a & b d) None of these.
14. The 2G GSM technology uses a carrier separation of
a) 1.25 MHz b) 200 KHz c) 30 KHz d) 300 KHz
15. Commonly used mode for 3G network is
a) TDMA b) FDMA c) TDD d) FDD
16. The minimum spectrum allocation required for W- CDMA is

- a) 5MHz. b) 2MHz c) 500 KHz d) 100 KHz
17. The interference between the neighbouring base station is avoided by
a) Assigning different group of channels
b) Using transmitters with different levels.
c) Using different antenna's
d) All of the above.
18. Radio capacity may be increased in cellular concept by
a) Increase in radio spectrum
b) Increasing the number of base station & reusing the channels.
c) Both a & b
d) None of the above.
19. The shape of the cellular region for maximum radio coverage is
a) Circular b) Square c) Oval d) Hexagon.
20. Centre excited hexagonal cells use
a) Sectorized directional antennas b) Omni directional antenna
c) Yagi Uda antenna d) None of the above
21. The strategies acquired for channel assignment are
a) Fixed b) Dynamic c) Regular d) Both a & b.
22. In a fixed channel assignment strategy, if all the assigned channels are
a) Gets transferred to another cell. b) Gets blocked
c) Is kept on waiting d) All of the above
23. 2G mobile communication operates up to _____ speed.
a) 64 kbps b) 50 kbps c).60 kbps d) 40 kbps
24. Which of the following are the features of 2G mobile communication technology?
a) Better quality compared to 1G b) Supports multimedia
c) Supports text d) All the above
25. Is GPRS technology introduced along with 2G mobile communication technologies?
a) Yes b) No c) Maybe
26. Which of the following are the features supported by GPRS in 2G technology?
a) Emails b) Web browsing c) Downloads d) All the above
27. 2G technology with GPRS is also called as _____.
a) 2.5 G b) 3G c) 4G d) 5G
28. Third-generation mobile communication technology is represented as _____.
a) 3G b) 3.4 G c) 4G d) 2G
29. Which of the following are the 3G mobile communication features?
a) High internet speed b) High data speed c) 3D gaming d) All the above
30. What is the data speed range of 3G mobile communication?
a) 144kbps to 2Mbps b) 100kbps to 2 Mbps
c) 200kbps to 2Mbps d) 300 kbps to 345 Kbps
31. which of the following are web-based applications used by 3G?
a) Video conference b) Emails c) Multimedia d) All the above
32. Which of the following are the disadvantages of 3G technology?
a) Costly mobile devices b) Requires high infrastructure
c) High maintenance cost d) All the above
33. The next generation of 3G is _____.
a) 3.2G b) 3.5G c) 3.6G d) 4G
34. Mobile is also called as _____.

- a) Cell phone b) Hand phone c) Mobile cellular network d) All the above
35. GPS stands for _____.
- a) Global positioning systems b) Global partial system
c) Geo-positioning system d) All the above
36. The function of GPS is _____.
- a) Navigates to correct address on earth b) Locates address on earth
c) Points address d) All the above
37. Which of the following are the components of GPS?
- a) Satellites b) Ground stations c) Transmitter and receiver d) All the above
38. GPRS stands for _____.
- a) General packet radio receiver b) Geo packet radio receiver
c) Gradient packet radio receiver d) None of the above
39. GPRS is used in _____ mobile technology.
- a) 2G b) 3G c) 4G d) Both a and b
40. _____ has led to the growth of mobile communication services.
- a) Increase in battery consumption b) Increase in IC technology
c) Increase in DSP d) All the above
41. In cellular network frequency spectrum are divided into _____.
- a) Discrete channels b) Non-discrete channel c) Class of frequency d) None of the above
42. _____ are added to geographic cells of a specific area.
- a) Discrete channels b) Non-discrete channel c) Class of frequency d) None of the above
43. Analog cellular phone is _____ generation technology.
- a) 1G b) 2G c) 3G d) 4G
44. Digital cellular phone is _____ generation technology.
- a) 1G b) 2G c) 3G d) 4G
45. AMPS stands for _____.
- a) Advanced mobile telephony system b) Advanced medium telephony system
c) Automobile telephony system d) None of the above
46. 1G technology was developed based on _____.
- a) Advanced mobile telephony system b) Advanced medium telephony system
c) Automobile telephony system d) None of the above
47. AMPS is a _____ service.
- a) Standard cellular telephone service b) Cellular telephone service
c) Standard cellular service d) None of the above
48. AMPS in 1G were introduced by _____.
- a) Illinois Bell b) Richard c) Charles d) Dennis
49. Analogue cellular phone has a maximum deviation of the frequency of _____ for 100% modulation.
- a) +/- 12 KHz b) +/- 11 KHz c) +/- 10 KHz d) +/- 9 KHz
50. AMPS uses _____ modulation technique.
- a) Frequency division multiple access b) Phase modulation
c) Amplitude modulation d) All the above



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DPARTMENT OF ELECTRONICS

Subject: Basics of Cellular Communication

Examination Attendance – 2017-18

Date: 02/04/2018

Sl. No.	Register Number	Name of the student	Signature
1	1643005	Aditya C Pote	
2	1643028	Soumya Baswaraj Deshmukh	
3	1643044	Anand S Biradar	
4	1643046	Shivayogi Virpakshayya	
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6	1643059	B. Ganesh	
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12	1643134	KushalRao BheemRao	
13	1643152	Shilpa Rajkumar	
14	1643161	Rajeshwari C	
15	1643192	Divyashree Dhanraj	

Invigilator

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

KRE SOCIETY'S
KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE BIDAR
DEPARTMENT OF ELECTRONICS

RESPONSE SHEET

- 1) Name of the course: Basics of cellular communication
2) Name of the student: Aditya Pote
3) Class in which studying: Bcc VI
4) Reg. No. of student: 1643005
5) Date of exam: 02-04-2018

36/50

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	○	○	○

SIGNATURE OF THE INVEGILATOR

SIGNATURE OF THE H.O.D.

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DEPARTMENT OF ELECTRONICS

Subject: Basics of Cellular Communication

MARKS-LIST

Sl. No.	Register Number	Name of the student	Marks obtained out of <u>50</u>
1	1643005	Aditya C Pote	36
2	1643028	Soumya Baswaraj Deshmukh	38
3	1643044	Anand S Biradar	39
4	1643046	Shivayogi Virpakshayya	41
5	1643048	Kiran Mallikarjun	37
6	1643059	B. Ganesh	39
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14	1643161	Rajeshwari C	39
15	1643192	Divyashree Dhanraj	38

Course In-charge

HOD

IQAC CO-ORDINATOR

Dept. of Electronics

Karnatak Arts, Sci. & Com. College Bidar

IQAC Coordinator

Karnatak Arts, Science and Commerce College,
BIDAR


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KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE, BIDAR


Certificate Course on
Basics of "Cellular Communication"

OUTCOMES

1. Discuss different type's cellular concepts with respect generations.
2. Identify different types of propagation effects.
3. To have the knowledge of the mobile system specifications.
4. Classify multiple access techniques in mobile communication.
5. Outline idea of CDMA techniques.
6. Analyze various methodologies to improve the cellular capacity.


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


IOAC
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Add-on course Report and Outcome Analysis (2017-18)

Name of the Course: Add –on Basics of Cellular Communication

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: 17 October, 2017


Date of Start of Course: 16, Jan, 2018

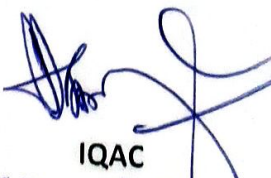
Date of End of Course: 12 March 2018

Our college offers the curriculum as prescribed by Gulbarga University Kalaburagi. The curriculum does not address every local need, thus we considered teaching our students about local technological demands. In this regard, the Department established Institutional BOS, created a syllabus that was appropriate for our students, and obtained Institutional BOS approval. Applicants from the electronic stream were invited to apply, and students were chosen based on their prior academic performance in electronic-related topics. The course provides an overview of mobile communication, the usage of frequencies and the preservation of the frequency spectrum, channel accommodation, handoff, and multipath fading MIMO and CDMA, among other topics. We are enrolling in 30-hour classes for two credits to finish our curriculum. The programme enables students to start their own businesses and helps them obtain employment as technical assistants in the communication 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,
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IQAC
Vice-Principal &
IQAC. Coordinator
Karnatak Arts, Science &
Commerce College, Bidar


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BIDAR-585401

Certificate Course =>

Basics of Cellular Communication
K.R.E. Karnatak Arts, Science And Students Attendance Register

Admission No.	Roll Number	Names	Date														
			No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	167	Poatibha Kachinath		1	2	3	4	4	5	6	7	8	8	9	10	11	12
2	168	Nikita Rajesh		1	2	3	3	4	5	6	7	8	9	9	10	11	12
3	170	Anuja Narayan Rao		1	1	2	3	4	4	5	6	7	8	9	10	10	11
4	171	Mamta Rajkumar		1	2	3	4	5	6	6	7	8	9	10	11	11	12
5	176	Geeta Baswaraj		0	1	2	2	3	4	5	5	6	7	8	9	10	10
6	183	Siddharoodh S.K.		0	1	2	3	3	4	4	5	6	7	8	9	10	11
7	185	Aakash Goyal		1	2	2	3	4	5	6	7	8	8	9	9	10	11
8	187	Dinesh Shivraj		1	1	2	2	3	3	4	4	5	6	7	8	9	10
9	188	Pradeep Sangeeth		0	1	2	3	4	4	5	6	7	7	8	9	9	9
10	191	Shivkumar Shalva MG		1	2	3	4	4	5	5	6	7	8	8	9	10	10
11	201	Deepak Ramesh G		0	1	2	3	4	5	6	6	7	7	8	9	9	10
12	206	Kacharishree Kachinath		0	1	2	2	3	4	5	5	6	7	7	8	9	10
13	207	Shivakannan Veerakotty		0	1	2	3	4	5	6	6	7	7	8	9	10	10
14	209	Vinita Vasanth		1	1	2	2	3	4	5	6	7	8	9	9	10	11
15	210	Salomi Shankar		1	1	2	3	3	4	5	5	6	7	8	9	9	10

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HOD,
 Dept. of Electronics
 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 2017-2018

Admission No.	Roll Number	Names	Date																												
			No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
13	14	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12
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11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11
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12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11

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