

Date: 14/10/2018

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

Sub: Request to grant permission for continuation Certificate course on "Basics of Cellular Communication" for the academic year 2018-19- 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 2018-19 with intake of 15 students. Please permit us to continue the Certificate course mentioned above and do the needful.

Thanking You.


Course In charge

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


Head

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



ESTD. 1942

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

IQAC Coordinator

Karnatak Arts, Science and Commerce College
BIDAR

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

Principal

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ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ, ಬಿದರ

FOR THE ACADEMIC YEAR 2018-19.

Certificate Course on
Basics of "Cellular Communication"

SYLLABUS

MAX HOURS: 30

- Week 1: Overview of Cellular Systems and evolution of 2G/3G/4G. 3hrs
- Week 2: Cellular Concepts-Frequency reuse, Co channel and Adjacent channel Interference, C/I, Handoff, Blocking, Erlangen capacity. 4hrs.
- Week 3: Wireless Propagation Part I-Link budget, Free Space path loss, Noise Figure of receiver. 3hrs
- Week 4: Wireless Propagation Part II-Multipath fading, Shadowing, Fading Margin, shadowing margin. 3hrs
- Week 5: Antenna Diversity. 4hrs
- Week 6: Wireless Channel Capacity. 4hrs -
- Week 7: Necessities of Multiple input multiple outputs (MIMO) in Cellular Communication. 4 hrs
- Week 8: Introduction of CDMA. 5 hrs

HOD.

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



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Department of ABC

Date: 28/12/2018

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/ 2019 for two months; interested students can enrol their names on or before 04/01/2019 in the Department of Electronics.

Course Incharge/H O D
HOD:

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

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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 2018-19

Name of the Student Geeta

Father's/Guardian's Name Basavanaj

Date of Birth
Date 01 Month 06 Year 1998



Address for Correspondence :

H.No. 2-40-1,
Mulhari colony,
Bidar



Semester/Class : BSc II

Register No : 1746721

Percentage of previous semester : 86.33%

Contact No : 9353290478

E-Mail ID :

Course to be Joined: "Basics of Cellular Communication"

Geeta

Signature of the Student

[Signature]
HOD/
Dept. of Electronics

Karnatak Arts, Sci. & Com. College Bidar

[Signature]
Principal

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ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬಿದರ



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DPARTMENT OF ELECTRONICS

Subject: Basics of Cellular Communication

Sl. No.	Register Number	Name of the student
1	1746714	Shivsharnapa Veershetty
2	1746721	Geeta Baswaraj
3	1746729	Mamta Rajkumar
4	1746736	Deepak Ramesh Garje
5	1746809	Shivkumar Sharnappa
6	1746829	Pradeep Sangamesh
7	1746836	Dinsh Shivaraj
8	1746837	Vachanashree Kashinath Biradar
9	1746855	Siddharoodh S K Shambu
10	1746857	Akash Goyal
11	1746862	Nikita Rajesh
12	1746874	Salomi Shankar
13	1746878	VinitaVasanth
14	1746892	Anuja NarayanRao
15	1746902	Pratibha Kashinath

Course Inchargwe

HOD.

IQAC CO-ORDINATOR

PRINCIPAL

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

IQAC Coordinator
Karnatak Arts, Science and Commerce College,
BIDAR

ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು
ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ



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Department of ABC




Date: 21/03/2018

NOTICE

All the students enrolled in Certificate Course on "Basics of Cellular Communication" are hereby informed that, the course examination is scheduled on 26/03/2019 from 9-10AM.


Course Incharge


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ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು
ವಾಣಿಜ್ಯ ಪುನಾವಿಧ್ಯಾಲಯ, ಬೀದರ್



Karnatak Arts, Science & Commerce College, Bidar

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DEPARTMENT OF ELECTRONICS

Subject: Basics of Cellular Communication

Date: 26/03/2019

Time: 1hour

Max.Marks:50

Answer all the questions carrying one mark each.

- 1. Does AMPS separate transmissions in frequency domain?**
a) Yes b) No c) Maybe
- 2. Subscribers in an analog cellular phone are assigned _____ for mobile call purpose.**
a) Voice channels b) Audio channels c) Video channels d) Both a and b
- 3. which of the following is the process performed at receiver end in mobile communication?**
a) Modulation b) Decoding c) Demodulation d) Both b and c
- 4. Audio channels are also called as _____.**
a) Voice channels b) Image channels c) Video channels d) Both a and b
- 5. Subscribers in an analog cellular phone are assigned with _____ number of audio channels for mobile call purpose. Add description here!**
a) 2 b) 3 c) 4 d) 5
- 6. Which of the following are analog cellular phones, audio channels for mobile call purpose?**
a) Forward b) Reverse c) One way d) Both a and b
- 7. _____ techniques are used by a user to share the spectrum in an efficient way.**
a) Multiple access technique b) Frequently access techniques
c) Rarely access techniques d) None of the above
- 8. Wireless communication uses _____ method.**
a) Multiplexing b) Quantizing c) Equalizing d) None of the above
- 9. Wireless communication uses _____ number of Multiplexing methods.**
a) 2 b) 3 c) 4 d) 5
- 10. Which of the following are multiplexing methods used in mobile communication?**
a) TDMA b) FDMA c) CDMA d) All the above
- 11. In which spectrum available spectrum is divided and further these narrow bands are divided equally into time slots?**
a) TDMA b) FDMA c) CDMA d) All the above
- 12. In North America, the digital cellular standard at IS 136 for each frequency channel is assigned with _____ frequency.**
a) 30 KHz b) 50 KHz c) 59 Hz d) 70 Hz
- 13. _____ multiplexing technique allows user to share traffic channels.**
a) TDMA b) FDMA c) CDMA d) All the above
- 14. The process where users share available spectrum in the frequency band is called _____.**
a) Traffic channel b) Congestion channel c) Noise d) Disturbance

15. In which multiplexing technique, different users are assigned with the different channels.
- a) TDMA b) FDMA c) CDMA d) All the above
16. _____ cellular systems use FDMA type system.
- a) Digital b) Analog c) Both a and b d) Discrete
17. Which of the following is a multicellular transmission type technique?
- a) FDMA b) OFDM c) CDMA d) TDMA
18. OFDMA stands for _____.
- a) Orthogonal frequency division multiplexing b) Original frequency division multiplexing
c) Orthogonal frequency derived multiplexing d) Orthogonal frequency-division mutant
19. OFDMA was introduced by _____.
- a) Robert W b) Williams c) Richard d) Charles
20. OFDMA was introduced by Robert W in _____ year.
- a) 1966 b) 1967 c) 1965 d) 1999
21. Is OFDM a FDMA technique?
- a) Yes b) No c) Maybe
22. OFDMA was incorporated into _____ standard.
- a) Wireless network b) Wired network c) Cable network d) All the above
23. In OFDMA, data stream are carried by multiple _____ rate subcarrier type tones.
- a) High b) Low c) Zero d) Infinite
24. Does OFDMA overcomes hostile frequency selective type fading?
- a) Yes b) No c) Maybe
25. OFDMA combines benefits of _____ techniques.
- a) Coherent detection b) OFDM modulation c) OFDM demodulation d) Both a and b
26. OFDM technique reduces electrical BW using _____.
- a) Up-down conversion b) Frequency conversion
c) Increasing frequency bandwidth d) None of the above
27. OFDM is suitable for _____ speed circuit design.
- a) High b) Low c) Medium d) Zero
28. OFDM uses _____ mathematical techniques for processing signal.
- a) FFT b) IFFT c) DFT d) Both a and b
29. Centre excited hexagonal cells use
- a). Sectorized directional antennas b). Omni directional antenna
c). Yagi Uda antenna d). None of the above
30. The strategies acquired for channel assignment are
- a). Fixed b). Dynamic c). Regular d). Both a & b.
31. 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.
32. 2G mobile communication operates up to _____ speed.
- a) 64 kbps b) 50 kbps c).60 kbps d) 40 kbps
33. 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
34. Is GPRS technology introduced along with 2G mobile communication technologies?
- a) Yes b) No c) Maybe

35. Which of the following are the features supported by GPRS in 2G technology?
 a) Emails b) Web browsing c) Downloads d) All the above
36. 2G technology with GPRS is also called as _____.
 a) 2.5 G b) 3G c) 4G d) 5G
37. Third-generation mobile communication technology is represented as _____.
 a) 3G b) 3.4 G c) 4G d) 2G
38. 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
39. What is the data speed range of 3G mobile communication?
 a) 144kbps to 2Mbps b) 100kbps to 2Mbps c) 200kbps to 2Mbps d) 300 kbps to 345 Kbps
40. Which of the following are web-based applications used by 3G?
 a) Video conference b) Emails c) Multimedia d) All the above
41. 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
42. The next generation of 3G is _____.
 a) 3.2G b) 3.5G c) 3.6G d) 4G
43. Mobile is also called as _____.
 a) Cell phone b) Hand phone c) Mobile cellular network d) All the above
44. GPS stands for _____.
 a) Global positioning systems b) Global partial system
 c) Geo-positioning system d) All the above
45. The function of GPS is _____.
 a) Navigates to correct address on earth b) Locates address on earth
 c) Points address d) All the above
46. Which of the following are the components of GPS?
 a) Satellites b) Ground stations c) Transmitter and receiver d) All the above
47. GPRS stands for _____.
 a) General packet radio receiver b) Geo packet radio receiver
 c) Gradient packet radio receiver d) None of the above
48. GPRS is used in _____ mobile technology.
 a) 2G b) 3G c) 4G d) Both a and b
49. _____ 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
50. In cellular network frequency spectrum are divided into _____.
 a) Discrete channels b) Non-discrete channel c) Class of frequency d) None of the above



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DEPARTMENT OF ELECTRONICS

Subject: Basics of Cellular Communication

Examination Attendance - 2018-19

Date: 26/03/2019

Sl. No.	Register Number	Name of the Student	Signature
1	1746714	Shivsharnapa Veershetty	
2	1746721	Geeta Baswaraj	
3	1746729	Mamta Rajkumar	
4	1746736	Deepak Ramesh Garje	
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14	1746892	Anuja NarayanRao	
15	1746902	Pratibha Kashinath	

Invigilator



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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 50
1	1746714	Shivsharnapa Veershetty	38
2	1746721	Soumya Baswaraj Deshmukh	42
3	1746729	Anand S Biradar	44
4	1746809	Shivayogi Virpakshayya	38
5	1746829	Kiran Mallikarjun	40
6	1746836	B. Ganesh	37
7	1746837	Lumure VushalReddy	37
8	1746855	Basvapasad Navaling Patil	41
9	1746857	Priya Biradar	39
10	1746862	Arun Kanteppa	35
11	1746874	Kalyani Shivraj	44
12	1746878	KushalRao BheemRao	38
13	1746892	Shilpa Rajkumar	37
14	1746892	Rajeshwari C	40
15	1746902	Divyashree Dhanraj	42

Course Incharge

HOD

IQAC CO-ORDINATOR

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

IQAC Coordinator
Karnatak Arts, Science and Commerce College,
BIDAR

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Add-on course Report and Outcome Analysis (2018-19)

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, 2019

Date of End of Course: 16 March 2019

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
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

Certificate of 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	121	Shivaragi Umprakashy G		1	2	3	4	5	6	7	7	8	9	10	10	11	12
2	124	Basavarajad Abhaling Reddy		1	1	2	3	4	5	6	7	8	8	9	10	11	11
3	125	B-Gomesh S		1	2	3	3	4	5	6	6	7	7	8	8	9	10
4	126	Kushal Rao Bheem Rao		0	1	2	3	4	5	5	6	7	8	9	9	10	11
5	128	Shilpa Rajkumar		1	2	3	4	5	6	6	7	8	8	9	10	10	11
6	129	Adun Kontappa		1	2	3	4	5	6	7	7	8	8	9	10	11	11
7	31	Rajeshwari - C		1	2	3	3	4	5	6	6	7	8	9	10	10	11
8	132	Dnyashree Dhanraj		0	1	2	3	4	4	5	6	7	8	9	9	10	11
9	133	Pooja Biradar		1	2	2	3	4	4	5	6	7	8	9	10	11	11
10	137	Soumya Baswaraj D		1	2	3	4	5	5	6	7	8	9	10	11	12	12
11	149	Kiran Mallikarjun		1	2	3	4	5	6	7	8	8	9	9	10	10	11
12	204	Aditya C Pote		0	1	2	3	4	5	6	6	7	8	9	9	10	11
13	207	Ananda Shwari Bireddy		1	2	2	3	3	4	5	6	7	8	8	9	9	10
14	210	Lumse Vishal Reddy		1	1	2	3	4	4	5	5	6	7	7	8	9	10
15	213	Kalyani Shwari		1	2	3	4	5	5	6	7	8	9	10	10	11	12

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

Signature of Lecturer with Date

Signature of H.O.D.

(Handwritten signatures and dates)

Society's Commerce College Bidar For the Month of 2018-2019


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
1	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
2	1	1	2	3	4	5	6	7	8	8	9	10	11	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
3	1	2	3	3	4	5	6	6	7	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
4	0	1	2	3	4	5	5	6	7	8	9	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
5	1	2	3	4	5	6	6	7	8	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
6	1	2	3	4	5	6	7	7	8	8	9	10	11	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
7	1	2	3	3	4	5	6	6	7	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
8	0	1	2	3	4	4	5	6	7	8	9	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
9	1	2	2	3	4	4	5	6	7	8	9	10	11	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
10	1	2	3	4	5	5	6	7	8	9	10	11	12	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
11	1	2	3	4	5	6	7	8	8	9	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
12	0	1	2	3	4	5	6	6	7	8	9	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
13	1	2	2	3	3	4	5	6	7	8	8	9	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
14	1	1	2	3	4	4	5	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
15	1	2	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

(Handwritten signatures and dates)

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Students Attendance Register

Admission No.	Roll Number	Names	Date
			No.
1	121	Shivaragi Virpatkoyy G	
2	124	Basavaprasad Abvaling Desai	
3	125	B-Ganesh. S	
4	126	Kushal Rao Bheem Rao	
5	128	Shilpa Rajkumar	
6	129	Adun Kontempu	
7	31	Rajeshwari - C	
8	132	Dinyashree Dhanraj	
9	133	Priya Biradar	
10	137	Soumya Baswaraj D	
11	199	Kiran Mallikarjun	
12	204	Aditya. C. Dote	
13	207	Ananda Shivanaj Biradar	
14	210	Lumse Vishal Reddy	
15	213	Kalyani Shivanaj	


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

Signature of Lecturer with Date

No.	Date													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	25/26													
	24/25													
	25/26													
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