



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)
Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India.
[AFFILIATED TO BPUT, ODISHA]
www.coeb.ac.in

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ADD-ON COURSE : Advances and challenges in telecommunication

[Programme: B.Tech, ETC]

Course Objectives:

To expose the students the fundamental concepts of Wireless Communication Systems/Networks; To impart knowledge to student about recent trends in telecommunication. It provides a brief introduction on the research area of 4G/5G communication systems.

SYLLABUS

Total Lecture Hours : 40

MODULE-I:

[10 Hours]

Evolution of Broadband Wireless; Fixed Broadband Wireless and Mobile Broadband Wireless; WiMAX, 3G, 4G and beyond. Wi-Fi Systems; Spectrum Options for Broadband Wireless; Technical Challenges for Broadband Wireless - Wireless Radio Channel: Path loss and Shadowing; Spectrum Scarcity, Quality of Service, Mobility, Portability, Security, Supporting IP in Wireless.

MODULE-II

[10 Hours]

Orthogonal Frequency Division Multiplexing, Multicarrier Modulation – OFDM, Introduction to Multiple Antenna Techniques, SISO, SIMO, MISO and MIMO antenna schemes.

MODULE-III

[10 Hours]

Recent Trends in Tele-communication, Artificial intelligence and its uses in communication. Introduction to ML, DL and their uses in communication.

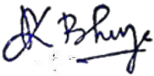
MODULE-IV

[10 Hours]

Limitations and future prospects of ML, DL, AI based communication. Technical perspective of these algorithms in communication

Course Outcomes: After completion of the course, the students will be able to

- CO1: Explain the basic principles of Wireless communication.
- CO2: Explain the different algorithms involved in communication
- CO3: Able to explain the challenges in communication and future prospect.


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Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of course and assessment processes.

Learning resources:

Suggested Books:

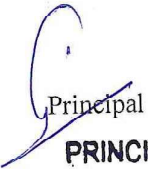
1. Wireless Communication: Advancements and Challenges (Wireless Communications and Networking Technologies) by Krishna Kumar, Pankaj Sharma, Ram Shringar Rao.
2. Advances in Telecommunications Networks by William M. Lee Derrick C. Brown.
3. Advanced Communication System by Sapna Katiyar , S.K. Kataria & Sons


Other Sources:

e-Learning Resources:

1. <https://www.youtube.com/watch?v=-ymnQ5rpcYA&list=PLbMVogVj5nJSi8FUsvglRxLtN1TN9y4nx>

Design and Developed by: Prof. Snehasis Dey and Prof. Lokanath Sarangi


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H.O.D., ETC Engg.
H.O.D.
Dept. of ETC Engg.
COEB, Bhubaneswar



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NOTICE

ADD-ON/CERTIFICATE COURSE

Ref No: COEB/ETC/2018/08

Date: 07/07/2018

It is for the information of all the students of 3rd/5th/7th semester that the classes for the Add-On/Certificate Courses will commence as per the time table given below. The registration process for the course will start from **09/07/2018**. The interested students to enroll themselves for the course are advised to contact the concerned Course Coordinators for the details.

Semester	Course Title	Course Coordinator	Date of Commencement
3rd	PCB Design	Prof. Snehasis Dey	18/07/2018
5th	Advances and challenges in telecommunication	Prof. Lokanath Sarangi	18/07/2018
7th	Machine Learning Algorithms for Communication	Prof. Asit Kumar Satapathy	18/07/2018

The class timing will be from 5.30 pm to 7.30 pm.

Head of the Department

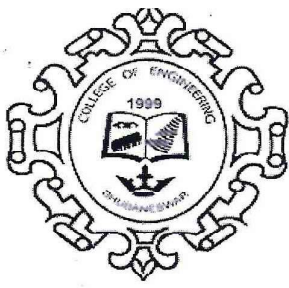
H.O.S
Dept. of ETC Engg.
COEB, Bhubaneswar

Copy to:

1. Office of the Chairman/ Vice-Chairman for kind information.
2. Office of the Executive Director for kind Information.
3. Office of the Registrar for kind Information.
3. Office of the Principal for kind information.
4. Departmental Notice Board.
5. Guard File

Head of the Department


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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: Electronics and Telecommunication Engineering	
Course Title: Advances and challenges in telecommunication	
Semester: 5th	Academic Year: 2018-19

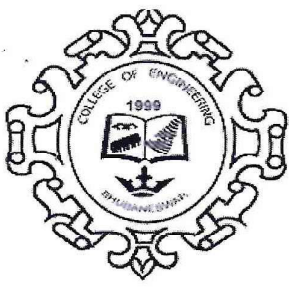
Student's Declaration/Undertaking

1.I do hereby undertake to participate in the above mentioned add on course.

2.I do hereby, promise to abide by the admissible rules and regulations, connecting discipline,attendance,etc. of the department, and also to follow the code of Conduct prescribed for the students of the institute, as in force from time to time.

SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Signature of the student
1	1601219052	A ASHOK PATRA	A.A. Patra
2	1601219053	AASHISH KUMAR	Aashish Kumar
3	1601219054	AISHWARYA BEHERA	Aishwarya Behara
4	1601219055	ANKITA KUMARI	Ankita Kumari
5	1601219056	DIVYANSHI LAKRA	Divyanshi Lakra
6	1601219057	PRITIJINTA DAS	Pritijinta Das
7	1601219058	RISHIRAJ BIDYABHUSON	Rishiraj Bidyabhushon
8	1601219059	SAMBIT KUMAR MANGARAJ	Sambot Kumar Mangaraj
9	1601219060	SHILPA KUMARI	Shilpa Kumar
10	1601219061	SNEHA PRIYANKA TIRKEY	Sneha Priyanka Tirkey
11	1601219124	RAVINDRA KUMAR	Ravindra Kumar
12	1601219125	SK MEHBOOB ALI	Sk Meheboob Ali
13	1601219126	TRIPTI JHA	T. JHA
14	1601219149	ARJIT MAHANANDIA	Arjit Mahanandia


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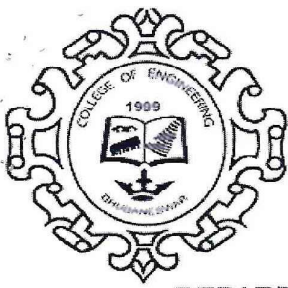


COLLEGE OF ENGINEERING BHUBANESWAR (COEB)
ADD-ON COURSE

STUDENT ENROLLMENT SHEET

15	1601219150	MEGHA SHARMA	Megha Sharma
16	1601219160	VISHAL KUMAR	Vishal Kumar
17	1601219161	NISHA KUMARI	Nisha Kumari
18	1601219162	SHUBHAM ROY	Shubham Roy
19	1601219163	SUMEET BHOI	Sumet Bhoi
20	1601219164	VIJENDRA BOIPAI	Vijendra Boipai
21	1601219174	ROSHAN RAJ	Roshan Raj
22	1601219332	BIRESH RANJAN PATRA	Ba Biresih Ranjan Patra
23	1601219333	SMARANIKA MALLICK	Smaranika Mallick
Signature of the Course Coordinator			L. Sarangi


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Koustuv Technical Campus, Plot No. 1 (A), Koustuv Square, Infocity Road
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ADD ON COURSE _____

STUDENT ATTENDANCE SHEET

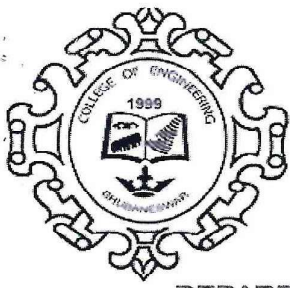
Programme: B.Tech in ETC

Semester: 5th Academic Year : 2018-19

Name of the course: Advances and challenges in telecommunication

Duration : 40 hours		Date & Signature of the Student				
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 18/7/18	Date: 19/7/18	Date: 20/7/18	Date: 23/7/18
1	1601219052	A ASHOK PATRA	A A Patra	A A Patra	A A Patra	A A Patra
2	1601219053	AASHISH KUMAR	Aashish Kumar	Aashish Kumar	Aashish Kumar	Aashish Kumar
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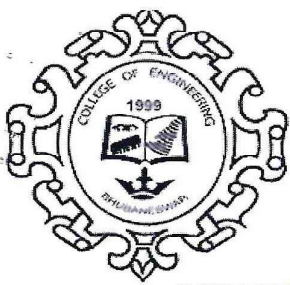
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

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Signature of the Course Coordinator			L. Sarangi	L. Sarangi	L. Sarangi	L. Sarangi


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ADD ON COURSE

STUDENT ATTENDANCE SHEET

Programme: B.Tech in ETC

Semester: 5th Academic Year : 2018-19

Name of the course: Advances and challenges in telecommunication

Course Code (if any):

Duration : 40 hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 24/7/18	Date: 25/7/18	Date: 26/7/18	Date: 27/7/18
1	1601219052	A ASHOK PATRA	X X Patra	X X Patra		X X Patra
2	1601219053	AASHISH KUMAR	Aashish Kumar	Aashish Kumar	Aashish Kumar	Aashish Kumar
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A. B. Singh

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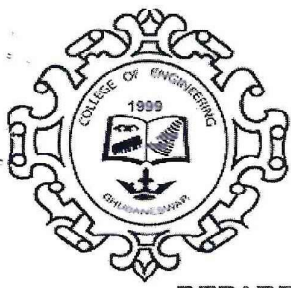
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

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Programme: B.Tech in ETC

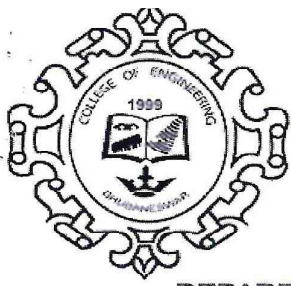
Semester: 5th Academic Year : 2018-19

Name of the course: Advances and challenges in telecommunication

Course Code (if any):

Duration : 40 hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 30/7/18	Date: 31/7/18	Date: 6/8/18	Date: 7/8/18
1	1601219052	A ASHOK PATRA	X X Patra	X X Patra	X X Patra	X X Patra
2	1601219053	AASHISH KUMAR	Aashish Kumar	Aashish Kumar	Aashish Kumar	Aashish Kumar
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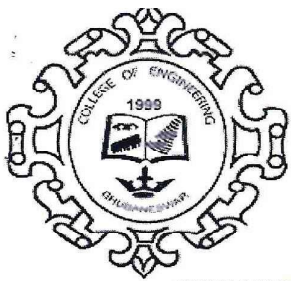
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Signature of the Course Coordinator			L. Sanangi	L. Sanangi	L. Sanangi	L. Sanangi


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Programme: B.Tech in ETC

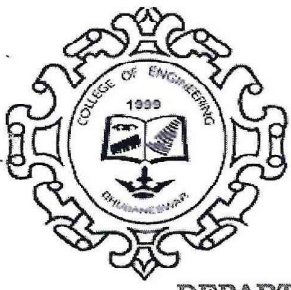
Semester: 5th Academic Year : 2018-19

Name of the course: Advances and challenges in telecommunication

Course Code (if any):

Duration : 40 hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 8/8/18	Date: 9/8/18	Date: 10/8/18	Date: 13/8/18
1	1601219052	A ASHOK PATRA	A Ashok Patra	A Ashok Patra	A Ashok Patra	A Ashok Patra
2	1601219053	AASHISH KUMAR	Aashish Kumar	Aashish Kumar	Aashish Kumar	Aashish Kumar
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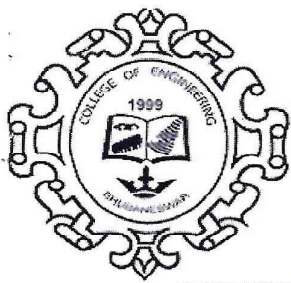
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STUDENT ATTENDANCE SHEET

15	1601219150	MEGHA SHARMA	Megha Sharma	Megha Sharma	Megha Sharma	Megha Sharma
16	1601219160	VISHAL KUMAR	Vishal Kumar	Vishal Kumar	Vishal Kumar	Vishal Kumar
17	1601219161	NISHA KUMARI	Nisha Kumari	Nisha Kumari	Nisha Kumari	Nisha Kumari
18	1601219162	SHUBHAM ROY	Shubham Roy		Shubham Roy	Shubham Roy
19	1601219163	SUMEET BHOI	Sumeeet Bhoi	Sumeeet Bhoi	Sumeeet Bhoi	Sumeeet Bhoi
20	1601219164	VIJENDRA BOIPAI	VBoipai	VBoipai	VBoipai	VBoipai
21	1601219174	ROSHAN RAJ	Roshan Raj	Roshan Raj	Roshan Raj	Roshan Raj
22	1601219332	BIRESH RANJAN PATRA	BkPatra	BkPatra	BkPatra	BkPatra
23	1601219333	SMARANIKA MALLICK	Smaranika Mallick	Smaranika Mallick	Smaranika Mallick	
Signature of the Course Coordinator			L. Sarangi	L. Sarangi	L. Sarangi	L. Sarangi


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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

Koustuv Technical Campus, Plot No. 1 (A), Koustuv Square, Infocity Road
Patia, Bhubaneswar-751024, Odisha, India.

[AFFILIATED TO BPUT, ODISHA]

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ADD ON COURSE

STUDENT ATTENDANCE SHEET

Programme: B.Tech in ETC

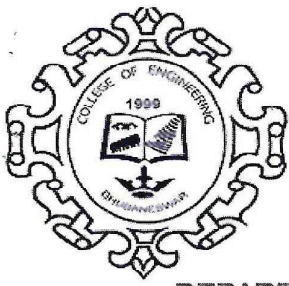
Semester: 5th Academic Year : 2018-19

Name of the course: Advances and challenges in telecommunication

Course Code (if any):

Duration : 40 hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 17/8/18	Date: 20/8/18	Date: 21/8/18	Date: 23/8/18
1	1601219052	A ASHOK PATRA	A A Patra	A A Patra	A A Patra	A A Patra
2	1601219053	AASHISH KUMAR	Aashish Kumar	Aashish Kumar	Aashish Kumar	Aashish Kumar
3	1601219054	AISHWARYA BEHERA	Aishwarya Behera	Aishwarya Behera	Aishwarya Behera	Aishwarya Behera
4	1601219055	ANKITA KUMARI	Ankita Kumari	Ankita Kumari	Ankita Kumari	Ankita Kumari
5	1601219056	DIVYANSHI LAKRA	Divyanshi Lakra	Divyanshi Lakra	Divyanshi Lakra	Divyanshi Lakra
6	1601219057	PRITIJINTA DAS	Pritijinta Das	Pritijinta Das	Pritijinta Das	Pritijinta Das
7	1601219058	RISHIRAJ BIDYABHUSON	Rishiraj Bidyabhuson	Rishiraj Bidyabhuson	Rishiraj Bidyabhuson	Rishiraj Bidyabhuson
8	1601219059	SAMBIT KUMAR MANGARAJ	Sambit Kumar Mangaraj	Sambit Kumar Mangaraj	Sambit Kumar Mangaraj	Sambit Kumar Mangaraj
9	1601219060	SHILPA KUMARI	Shilpa Kumari	Shilpa Kumari	Shilpa Kumari	Shilpa Kumari
10	1601219061	SNEHA PRIYANKA TIRKEY	Sneha Priyanka Tirkey	Sneha Priyanka Tirkey	Sneha Priyanka Tirkey	Sneha Priyanka Tirkey
11	1601219124	RAVINDRA KUMAR	Ravindra Kumar	Ravindra Kumar	Ravindra Kumar	Ravindra Kumar
12	1601219125	SK MEHBOOB ALI	SK Mehboob Ali	SK Mehboob Ali	SK Mehboob Ali	SK Mehboob Ali
13	1601219126	TRIPTI JHA	T. JHA	T. JHA	T. JHA	T. JHA
14	1601219149	ARIJIT MAHANANDIA	Arijit Mahanandia	Arijit Mahanandia	Arijit Mahanandia	Arijit Mahanandia


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[AFFILIATED TO BPUT, ODISHA]

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ADD ON COURSE _____

STUDENT ATTENDANCE SHEET

15	1601219150	MEGHA SHARMA	Megha Sharma	Megha Sharma	Megha Sharma	Megha Sharma
16	1601219160	VISHAL KUMAR	Vishal Kumar	Vishal Kumar	Vishal Kumar	Vishal Kumar
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18	1601219162	SHUBHAM ROY	Shubham Roy	Shubham Roy		Shubham Roy
19	1601219163	SUMEET BHOI	Sumeet Bhoi	Sumeet Bhoi	Sumeet Bhoi	Sumeet Bhoi
20	1601219164	VIJENDRA BOIPAI	V. Boipai	V. Boipai	V. Boipai	V. Boipai
21	1601219174	ROSHAN RAJ	Roshan Raj	Roshan Raj	Roshan Raj	Roshan Raj
22	1601219332	BIRESH RANJAN PATRA	BR Patra	BR Patra	BR Patra	BR Patra
23	1601219333	SMARANIKA MALLICK	Smaranika Mallik	Smaranika Mallik		Smaranika Mallik
Signature of the Course Coordinator			L. Sarangi	L. Sarangi	L. Sarangi	L. Sarangi


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Certificate of Completion

This is to certify that Mr./Ms. PRITIJINTA DAS student of the Department

of Electronics and Telecommunications Engg semester Fifth bearing registration number 1601219057

has successfully completed the ADD-ON Course titled Advances and challenges in telecommunication


conducted at College of Engineering Bhubaneswar in the academic year 2018-19



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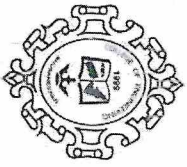


Course-Coordinator



Principal

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Certificate of Completion


This is to certify that Mr./Ms. RISHIRAJ BIDYABHUSON, student of the Department

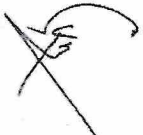
of Electronics and Telecommunications Engg. semester Fifth bearing registration number 1601219058


has successfully completed the ADD-ON Course titled Advances and challenges in telecommunication

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

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Course-Coordinator


Principal


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Certificate of Completion

This is to certify that Mr./Ms. SAMBIT KUMAR MANGARAJ student of the Department

of Electronics and Telecommunications Engg semester Fifth bearing registration number 1601219059

has successfully completed the ADD-ON Course titled Advances and challenges in telecommunication

conducted at College of Engineering Bhubaneswar in the academic year 2018-19


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Course-Coordinator



Principal


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Certificate of Completion


This is to certify that Mr./Ms. SHILPA KUMARI, student of the Department

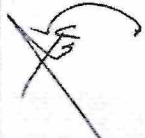
of Electronics and Telecommunications Engg semester Fifth bearing registration number 1601219060

has successfully completed the ADD-ON Course titled Advances and challenges in telecommunication

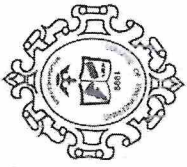
conducted at College of Engineering Bhubaneswar in the academic year 2018-19

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Course-Coordinator


Principal


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Certificate of Completion

This is to certify that Mr./Ms. SNEHA PRIYANKA TIRKEY, student of the Department

of Electronics and Telecommunications Engg semester Fifth bearing registration number 1601219061

has successfully completed the ADD-ON Course titled Advances and challenges in telecommunication

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

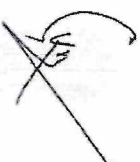


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Course-Coordinator



Principal