BHARATI VIDYAPEETH'S

COLLEGE OF ENGINEERING

LAVALE, PUNE-412115

Department of Electronics and Telecommunication

B.E. (Electronics/Electronics & Telecommunication Engineering)

2015 Course

Course Names Subject Code : Computer Networks(404182)

Course Outcomes (COs):-

1. Understand fundamental underlying principles of computer networking
2. Describe and analyze the hardware, software, components of a network and the interrelations.
3. Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies;
4. Have a basic knowledge of the use of cryptography and network security;
5. Have a basic knowledge of installing and configuring networking applications.
6. Specify and identify deficiencies in existing protocols, and then go onto select new and better protocols.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	X	X	√	X	X	X
CO-2	√	√	X	X	√	X	X	X
CO-3	√	√	X	X	√	X	X	X
CO-4	√	√	X	X	√	X	X	X
CO-5	√	√	X	X	√	X	X	X
CO-6	√	√	X	X	√	X	X	X

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B.E. (Electronics/Electronics & Telecommunication Engineering)

2015 Course

Course Names Subject Code: Microwave Engineering(404183)

Course Outcomes (COs):-

1. Formulate the wave equation in wave guide for analysis.
2. Identify the use of microwave components and devices in microwave applications.
3. Understand the working principles of all the microwave tubes
4. Understand the working principles of all the solid state devices
5. Choose a suitable microwave tube and solid state device for a particular application
6. Carry out the microwave network analysis
7. Choose a suitable microwave measurement instruments and carry out the required measurements.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	X	X	√	X	X	X
CO-2	√	√	X	X	√	X	X	X
CO-3	√	√	X	X	√	X	√	X
CO-4	√	√	X	X	√	X	X	X
CO-5	√	√	X	X	√	X	X	X
CO-6	√	√	X	X	√	√	X	X
CO-7	√	X	X	X	√	√	X	X

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B.E. (Electronics & Telecommunication Engineering)

2015 Course

Course Names Subject Code: Embedded Systems & RTOS(404184)

Course Outcomes (COs):-

1. Get insight of design metrics of Embedded systems to design real time applications to match recent trends in technology.

2. Understand Real time systems concepts.

3. Understand Linux operating system and device drivers.

4. Get to know the hardware – software co design issues and testing methodology for Embedded system.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	X	X	√	X	X	X
CO-2	√	√	X	X	√	X	X	X
CO-3	√	√	X	X	X	X	X	X
CO-4	√	√	X	X	√	X	X	X

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2015 Course

Course Names Subject Code : Electronic Product Design(404185)

Course Outcomes (COs):-

1.Understand various stages of hardware, software and PCB design.

2.Importance of product test & test specifications.

3.Special design considerations and importance of documentation.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	X	X	√	X	X	X
CO-2	√	√	X	X	√	X	X	X
CO-3	√	√	X	X	X	X	X	X

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Department of Electronics and Telecommunication

B.E. (Electronics & Telecommunication Engineering)

2015 Course

Course Names Subject Code: Mobile Communication(404189)

Course Outcomes (COs):-

1. Explain and apply the concepts telecommunication switching, traffic and networks • Analyze the telecommunication traffic.

2. Analyze radio channel and cellular capacity.

3. Explain and apply concepts of GSM and CDMA system.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	X	√	√	X	X	X
CO-2	√	√	√	√	√	X	X	X
CO-3	√	√	X	X	X	X	X	X

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B.E. (Electronics & Telecommunication Engineering)

2015 Course

Course Names Subject Code: Mobile Communication (404189)

Course Outcomes (COs):-

1. Explain and apply the concepts telecommunication switching, traffic and networks & Analyze the telecommunication traffic.

2. Analyze radio channel and cellular capacity.

3. Explain and apply concepts of GSM and CDMA system.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	X	√	√	X	X	X
CO-2	√	√	√	√	√	X	√	√
CO-3	√	√	X	X	X	X	X	X

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B.E. (Electronics & Telecommunication Engineering)

2015 Course

Course Names Subject Code: Broadband Communication Systems(404190)

Course Outcomes (COs):-

1. Carry out Link power budget and Rise Time Budget by proper selection of components and check its viability.

2. Carry out Satellite Link design for Up Link and Down Link.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	X	√	√	X	X	X
CO-2	√	√	√	√	√	X	√	√

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B.E. (Electronics & Telecommunication Engineering)

2015 Course

Course Names Subject Code: Audio Video Engineering(404191)

Course Outcomes (COs):-

1. To study the analysis and synthesis of TV Pictures, Composite Video Signal, Receiver, Picture Tubes and Television Camera Tubes.

2. To study the various Colour Television systems with a greater emphasis on television standards.

3. To study the advanced topics in Digital Television and High Definition Television.

4. To study audio recording systems such CD/DVD recording, Audio Standards, and Acoustics principles.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	X	√	√	X	X	X
CO-2	X	√	√	√	√	√	√	√
CO-3	√	X	√	X	X	X	X	X
CO-4	√	√	X	√	√	X	X	X

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2015 Course

Course Names Subject Code: Wireless Networks (404192)

Course Outcomes (COs):-

1. Keep himself updated on latest wireless technologies and trends in the communication a field
2. Understand the transmission of voice and data through various network.

Correlation between course outcomes (COs) and program outcomes (POs)

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	√	√	√	√	√	X	√	√
CO-2	√	√	X	X	X	X	X	X