



Rajgad Dnyanpeeth's

SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING

Gat No. 237, Pune Bangalore Highway, Dhangawadi, Tal – Bhor, Dist- Pune

(Maharashtra)

Criterion 2: Teaching Learning & Evaluation

Key Indicator: 2.6 – Student Performance and Learning Outcomes

2.6.2 – Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Response

SCSCOE has used following mechanisms to attain the POs, PSOs and COs as it is committed to it.

Continuous Evaluation during the semester: COs of the particular subjects are identified by the subject teacher and are mapped to the POs.

Every teacher monitors the performance of the student with the help of continuous evaluation sheet and the unit test after end of each unit. Target is already decided for every COs depending on the previous year attainment.

Evaluation at the end of the semester: At the end of the semester mock practical/oral examinations and term end examinations are conducted. Faculty designs unit test and Prelim examination paper that meets the certain COs. Based on the performance of the students COs attainment can be calculated.

At the Graduation Level: By considering parameters like Project work carried out by the student, placement student performance is evaluated. To analyze the level of attainment different types of feedbacks are used like alumni feedback, employer feedback, etc. AMC/IQAC conducts review meetings.

To analyze the level of attainment satisfied with the reference to different parameters different types of feedbacks are useful like infrastructure of the institute, teaching- learning process of the institute, placement and other facilities.





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 S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS),

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022 - 2023 , Semester - II

Class: BE	Course: Fiber Optic Communication
Course Code: 404190	Faculty Name: Asst. Prof. J. J. Bandal

COURSE EDUCATIONAL OBJECTIVES

Course Objective	Description
CEO404190.1	To familiarize learners with various components & equipments used in fiber optic communication systems.
CEO404190.2	To study the impact of choice of components on system design.
CEO404190.3	To introduce students to the WDM components and their role in capacity upgrade.
CEO404190.4	To extend the fundamentals to design and analysis of fiber optic communication links.
CEO404190.5	Expose students to the measurement standards, specifications and state of art developments in optical networks.

COURSE OUTCOME - DETAILS

Course Outcome	Description
CO3011.1	Explain the working of components and measurement equipments in optical fiber networks.
CO3011.2	Calculate the important parameters associated with optical components used in fiber optic telecommunication systems.
CO3011.3	Compare and contrast the performance of major components in optical links
CO3011.4	Evaluate the performance viability of optical links using the power and rise time budget analysis.
CO3011.5	Design digital optical link by proper selection of components and check its viability using simulation tools.
CO3011.6	Compile technical information related to state of art components, standards, simulation tools and current technological trends by accessing the online resources to update their domain knowledge.

CLASS TEST- COURSE OUTCOME MAPPING

Question No	CLASS TEST - I		CLASS TEST-II		PRELIUM EXAM	
	CO Mapping	Marks	CO Mapping	Marks	CO Mapping	Marks
Q 1. to Q.2	CO1	10	CO3	10	CO 5	5
Q 3. to Q.4	CO2	10	CO4	10	CO 6	5

Sign of Faculty:





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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022 - 2023 , Semester - II

Class: BE	Course: Fiber Optic Lab
Course Code: 404195	Faculty Name: Prof. J. J. Bandal

COURSE EDUCATIONAL OBJECTIVES

Course Objective	Description
CEO404195.1	To study Numerical aperture of fiber optic cable
CEO404195.2	To study electrical and optical characteristics of any one optical source LED/Laser.
CEO404195.3	To measure attenuation coefficient and bending losses in optical fibers.
CEO404195.4	Study characteristics of any one photo detector pn/pin/phototransistor.
CEO404195.5	Expose students to the measurement standards, specifications and state of art developments in optical networks.

COURSE OUTCOME - DETAILS

Course Outcome	Description
CO404195.1	Calculate Numerical aperture of fiber optic cable
CO404195.2	Explain electrical and optical characteristics of optical source
CO404195.3	Calculate attenuation coefficient and bending losses in optical fibers.
CO404195.4	Explain characteristics of photo detector
CO404195.5	Design digital optical link by proper selection of components and check its viability using simulation tools.
CO404195.6	Compile technical information related to state of art components, standards, simulation tools and current technological trends by accessing the online resources to update their domain knowledge.

ASSIGNMENT- COURSE OUTCOME MAPPING

Assignment	Course Outcome No	Assignment	Course Outcome No
1	CO 1	4	CO 4
2	CO 2	5	CO 5
3	CO 3	6	CO 6



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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022- 2023 , Semester - II

CO ATTAINMENT THROUGH UNIVERSITY EXAM

Class: BE		Course: Fiber Optic Communication			
Course Code: 404195		Faculty Name: Asst. Prof. J. J. Bandal			
Average University Result	CAY19-20	CAY18-19	CAY17-18	Average #DIV/0!	Goal Set
Goal Levels	L1		L2		L3
	85		87		90
Attainment Level	More than 50% students achieve set		More than 65% students achieve set goal		More than 80% students achieve set
	1		2		3
UNIVERSITY RESULT CAY					
S.No.	Roll No.	Name of Student		Th Marks	Pr Marks
1	BET20D001	BABAR RUTUJA PRADIP		61	42
2	BET20D002	BHARATI ROHINI LAXMAN			
3	BET20D003	BHIMANAVARV BASAVARAJ ARJUN		66	38
4	BET20D004	DESHMUKH SAMEER SATISH		64	37
5	BET20D005	DEVKAR POONAM DHANAJI		88	44
6	BET20D006	DHONDE ABHIJEET VITTHAL		49	41
7	BET19F007	DUDHANE TEJAS TANAJI		70	42
8	BET20D008	GADE RUSHIKESH NARAYAN		55	39
9	BET20D009	GADEKAR NILAM RAMESH		62	37
10	BET20D010	GHATAKAMBLE SANDEEP SIDHALINGAPPA		AB	AB
11	BET20D011	JADHAV ANIKET NATHU		61	38
12	BET20D012	JADHAV JYOTI SANJAY		68	40
13	BET20D013	JADHAV PRIYANKA TANAJI		59	38
14	BET18F014	KADAM DHIRAJ SUHAS		51	37
15	BET20D015	KANSE PAYAL ASHOK		61	40
16	BET20D016	KASHID DEEPALI BABURAO		77	39
17	BET20D017	KHOMANE SAGAR BHANUDAS		AB	AB
18	BET20D018	KHOPADE ARATI NAMDEV		59	39
19	BET20D019	KOKATE ANKITA BALASO		60	39
20	BET20D020	KOKATE UMESH RAMESH		54	40
21	BET20D021	KONDHALKAR POOJA RAMCHANDRA		67	39
22	BET20D022	MALAVI VISHAL SHIVAJI		49	39
23	BET19F023	MALEKAR KOMAL SANJAY		43	39
24	BET20D024	METIL MAHENDRA RANGRAO		53	39
25	BET20D025	MORE KETAN VIJAY		54	38
26	BET20D026	MORE MAHESH SUNIL		58	40
27	BET20D027	PARWADI AYUSH ASHOK		57	39
28	BET20D028	PATIL ARCHANA MAHADEO		60	42
29	BET20D029	PAWAR GANESH PANDURANG		55	38
30	BET20D030	PAWAR RUSHIKESH DNYANESHWAR		58	39
31	BET19F031	PAWAR SWARALI RAMCHANDRA		60	40
32	BET19F032	RENUSE ARCHANA SITARAM		52	37
33	BET20D033	SALUNKE PRATIKSHA PANDURANG		51	38
34	BET20D034	SHAIKH SHAHARUKH SALIM		56	39
35	BET20D035	SHENDGE BHAGYASHRI UMAJI		61	42
36	BET19F036	SUTAR PRATIK ADHIKRAO		54	40
37	BET21D037	SUTAR SHABDASHREE KIRAN		52	40
38	BET16D038	SUTAR SHITAL KASHINATH			
39	BET20D039	TAWARE SHUBHAM LAXMAN		45	38
40	BET20D040	WALHEKAR KOMAL BALASO		66	44

CO ATTAINMENT	No. of students achieving set goal	36	36
	% Attainment	90	90
	Attainment Level	3	3
	Average Attainment Level	3	



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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022- 2023 , Semester - II

COURSE OUTCOME ATTAINMENT

Class: BE	Course: Fiber Optic Communication
Course Code:404195	Faculty Name: Asst. Prof. J. J. Bandal

Goals for CO Attainment	CO	CO3011.1			CO3011.2			CO3011.3			CO3011.4			CO3011.5			CO3011.6					
	Goal	50%			50%			50%			50%			50%			50%					
Attainment Level	Level	L1	L2	L3	More than 85 %students achieved the Goal						More than 87 %students achieved the Goal						More than 90 %students achieved the Goal					
	85	87	90	1						2						3						
Total No of Students	0	Class Test - I			Class Test - I			Class Test - II			Class Test - II			Prelim Exam			Prelim Exam					
		5	5	Total	5	5	Total	5	5	Total	5	5	Total	5	5	Total	5	5	Total			
Roll No	Name of Student	Q.1	Q.2	10	Q.3	Q 4 to Q.5	10	Q.1	Q.2	10	Q.3	Q 4 to Q.5	10	Q5 or Q. Q5 or Q. Q.5	10	Q7 or Q.8	Q7 or Q.8	10				
BET20D001	BABAR RUTUJA PRADIP	2	2	4	2	2	4	2	2	4	2	1	3	2	2	4	2	3	5			
BET20D002	BHARATI ROHINI LAXMAN	2	3	5	3	4	7	4	3	7	3	4	7	3	3	6	5	3	8			
BET20D003	BHIMANAVARV BASAVARAJ ARJUN	1	1	2	2	2	4	4	2	6	2	5	7	2	2	4	2	2	4			
BET20D004	DESHMUKH SAMEER SATISH	2	2	4	3	3	6	5	3	8	3	3	6	2	3	5	5	4	9			
BET20D005	DEVKAR POONAM DHANAJI	2	2	4	4	5	9	3	4	7	3	2	5	3	4	7	3	3	6			
BET20D006	DHONDE ABHIJEET VITTHAL	3	4	7	2	1	3	2	5	7	3	2	5	1	1	2	3	3	6			
BET19F007	DUDHANE TEJAS TANAJI	2	1	3	3	4	7	4	4	8	3	4	7	3	3	6	4	4	8			
BET20D008	GADE RUSHIKESH NARAYAN	4	3	7	3	4	7	4	3	7	3	3	6	4	3	7	5	4	9			
BET20D009	GADEKAR NILAM RAMESH	3	3	6	4	3	7	5	4	9	3	3	6	3	3	6	3	3	6			
BET20D010	GHATAKAMBLE SANDEEP SIDHALINGAPP	5	3	8	4	2	6	1	1	2	1	1	2	3	3	6	2	2	4			
BET20D011	JADHAV ANIKET NATHU	2	2	4	5	3	8	4	4	8	2	2	4	3	2	5	4	4	8			
BET20D012	JADHAV JYOTI SANJAY	2	4	6	1	1	2	4	5	9	4	5	9	3	3	6	5	4	9			
BET20D013	JADHAV PRIYANKA TANAJI	2	1	3	2	2	4	2	2	4	2	2	4	2	2	4	5	3	8			
BET18F014	KADAM DHIRAJ SUHAS	2	2	4	3	3	6	3	3	6	4	5	9	3	3	6	3	3	6			
BET20D015	KANSE PAYAL ASHOK	2	2	4	4	5	9	2	2	4	4	3	7	4	4	8	3	4	7			
BET20D016	KASHID DEEPALI BABURAO	3	3	6	4	3	7	3	3	6	1	1	2	3	3	6	4	5	9			
BET20D017	KHOMANE SAGAR BHANUDAS	4	5	9	3	3	6	4	4	8	2	4	6	3	2	5	2	2	4			
BET20D018	KHOPADE ARATI NAMDEV	2	1	3	1	1	2	2	2	4	3	5	8	4	2	6	3	3	6			
BET20D019	KOKATE ANKITA BALASO	3	4	7	4	3	7	2	2	4	4	5	9	2	2	4	3	4	7			
BET20D020	KOKATE UMESH RAMESH	2	4	6	3	4	7	3	3	6	5	5	10	3	3	6	3	5	8			
BET20D021	KONDHALKAR POOJA RAMCHANDRA	2	1	3	2	1	3	3	2	5	5	3	8	5	4	9	4	3	7			
BET20D022	MALAVI VISHAL SHIVAJI	5	3	8	4	5	9	3	4	7	3	4	7	3	5	8	3	2	5			
BET19F023	MALEKAR KOMAL SANJAY	2	2	4	2	2	4	2	2	4	2	5	7	3	3	6	2	1	3			
BET20D024	METIL MAHENDRA RANGRAO	2	4	6	3	4	7	3	4	7	3	5	8	3	2	5	3	3	6			
BET20D025	MORE KETAN VIJAY	3	3	6	3	4	7	2	3	5	4	5	9	2	2	4	4	3	7			
BET20D026	MORE MAHESH SUNIL	4	5	9	2	4	6	5	3	8	5	3	8	3	2	5	5	4	9			
BET20D027	PARWADI AYUSH ASHOK	5	3	8	3	3	6	4	3	7	4	3	8	3	3	6	3	2	5			
BET20D028	PATIL ARCHANA MAHADEO	3	4	7	2	1	3	2	1	3	7	2	2	4	3	4	7	3	6			
BET20D029	PAWAR GANESH PANDURANG	2	4	6	2	2	4	2	1	3	3	5	8	4	5	9	3	3	6			
BET20D030	PAWAR RUSHIKESH DNYANESHWAR	2	2	4	3	4	7	3	3	6	2	5	7	3	3	6	4	4	8			
BET19F031	PAWAR SWARALI RAMCHANDRA	4	5	9	2	3	5	2	3	5	3	5	8	3	4	7	3	3	6			
BET19F032	RENUSE ARCHANA SITARAM	2	2	4	4	3	7	2	2	4	4	3	7	5	5	10	5	3	8			
BET20D033	SALUNKE PRATIKSHA PANDURANG	3	4	7	2	2	4	3	3	6	3	3	6	2	2	4	2	1	3			



Sign of Faculty:

Total No of Students	0	Class Test - I			Class Test - I			Class Test - II			Class Test - II			Prelim Exam			Prelim Exam		
		5	5	Total	5	5	Total	5	5	Total	5	5	Total	5	5	Total	5	5	Total
		BET20D034	SHAikh SHAHARUKH SALIM	2	3	5	5	3	8	3	2	5	3	4	7	3	5	8	3
BET20D035	SHENDGE BHAGYASHRI UMAJI	3	3	6	3	4	7	2	3	5	3	5	8	4	3	7	4	5	9
BET19F036	SUTAR PRATIK ADHIKRAO	2	1	3	2	4	6	3	3	6	3	5	8	2	2	4	5	3	8
BET21D037	SUTAR SHABDASHREE KIRAN	2	2	4	2	2	4	2	2	4	2	2	4	4	4	8	5	3	8
BET16D038	SUTAR SHITAL KASHINATH	3	4	7	2	5	7	3	3	6	3	3	6	3	3	6	3	4	7
BET20D039	TAWARE SHUBHAM LAXMAN	2	4	6	2	3	5	4	4	8	4	2	6	3	2	5	3	5	8
BET20D040	WALHEKAR KOMAL BALASO	2	2	4	2	3	5	3	3	6	2	1	3	3	5	8	2	2	4
	No of students achieving CO	40			40			40			40			40			40		
	% Attainment of CO	100			100			100			100			100			100		
	Attainment Level of CO	3			3			3			3			3			3		





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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022- 2023 , Semester - II

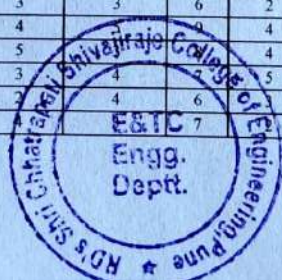
COURSE OUTCOME ATTAINMENT

Class: BE	Course: Fiber Optic Communication
Course Code:404195	Faculty Name: Asst. Prof. J. J. Bandal

Goals for CO Attainment	CO	CO3011.1	CO3011.2	CO3011.3	CO3011.4	CO3011.5	CO3011.6
	Goal	50%	50%	50%	50%	50%	50%

Attainment Level	L1	L2	L3	More than 85 %students achieved the Goal	More than 87 %students achieved the Goal	More than 90 %students achieved the Goal	
	Level	85	87	90	1	2	3

Total No of Students	0	Ass-I			Total	Ass-II			Total	Ass-III			Total	Ass-IV			Total	Ass-V			Total	Ass-VI			Total
		5		5		5		5		5		5		5		5		5		5		5		5	
		Q1 to Q.3	Q 4 to Q.6	10		Q1 to Q.3	Q 4 to Q.6	10		Q1 to Q.3	Q 4 to Q.6	10		Q1 to Q.3	Q 4 to Q.6	10		Q1 to Q.3	Q 4 to Q.6	10		Q1 to Q.3	Q 4 to Q.6	10	
BET20D001	BABAR RUTUJA PRADIP	2	2	4	2	3	5	2	3	5	2	3	5	2	3	5	2	3	5	4	3	7			
BET20D002	BHARATI ROHINI LAXMAN	2	4	6	3	4	7	4	3	7	3	4	7	5	5	10	5	5	10	5	3	8			
BET20D003	BHIMANAVARV BASAVARAJ ARJUN	3	3	6	2	4	6	4	2	6	2	5	7	5	5	10	5	4	9	5	4	9			
BET20D004	DESHMUKH SAMEER SATISH	2	5	7	3	3	6	5	3	8	3	3	6	5	3	8	5	5	10	5	5	10			
BET20D005	DEVKAR POONAM DHANAJI	5	3	8	4	5	9	3	4	7	4	4	8	3	4	7	3	3	6	5	5	10			
BET20D006	DHONDE ABHIJEET VITTHAL	3	4	7	5	3	8	2	5	7	5	5	10	4	5	9	3	3	6	4	4	8			
BET19F007	DUDHANE TEJAS TANAJI	2	4	6	3	4	7	3	5	8	5	5	10	5	5	10	4	4	8	5	5	10			
BET20D008	GADE RUSHIKESH NARAYAN	5	3	8	2	4	6	4	3	7	5	5	10	5	5	10	5	5	10	5	5	10			
BET20D009	GADEKAR NILAM RAMESH	4	5	9	4	3	7	5	2	7	3	3	6	5	5	10	3	3	6	5	5	10			
BET20D010	GHATAKAMBLE SANDEEP SIDHALINGAPPA	5	3	8	4	5	9	2	3	5	2	3	5	3	5	8	3	3	6	5	5	10			
BET20D011	JADHAV ANIKET NATHU	3	4	7	5	3	8	4	4	8	3	4	7	3	5	8	4	4	8	5	5	10			
BET20D012	JADHAV JYOTI SANJAY	2	4	6	3	4	7	4	5	9	4	5	9	4	3	7	5	5	10	5	3	8			
BET20D013	JADHAV PRIYANKA TANAJI	3	3	6	2	4	6	5	5	10	5	5	10	5	4	9	5	3	8	5	5	10			
BET18F014	KADAM DHIRAJ SUHAS	4	5	9	3	3	6	3	3	6	5	5	10	5	5	10	3	3	6	5	5	10			
BET20D015	KANSE PAYAL ASHOK	5	3	8	4	5	9	2	2	4	5	3	8	5	5	10	3	4	7	5	5	10			
BET20D016	KASHID DEEPALI BABURAO	3	3	6	5	3	8	3	3	6	3	3	6	3	5	8	4	5	9	5	3	8			
BET20D017	KHOMANE SAGAR BHANUDAS	4	5	9	3	3	6	4	4	8	2	4	6	3	5	8	5	3	8	5	5	10			
BET20D018	KHOPADE ARATI NAMDEV	5	3	8	4	5	9	5	5	10	3	5	8	4	5	9	5	3	8	5	5	10			
BET20D019	KOKATE ANKITA BALASO	3	4	7	5	3	8	2	5	7	4	5	9	5	5	10	3	4	7	5	5	10			
BET20D020	KOKATE UMESH RAMESH	2	4	6	3	4	7	4	3	7	5	5	10	5	3	8	3	5	8	5	5	10			
BET20D021	KONDHALKAR POOJA RAMCHANDRA	3	3	6	2	4	6	4	2	6	5	3	8	5	4	9	4	3	7	5	5	10			
BET20D022	MALAVI VISHAL SHIVAJI	2	2	4	4	2	6	3	4	7	3	4	7	3	5	8	5	4	9	4	3	7			
BET19F023	MALEKAR KOMAL SANJAY	3	4	7	5	3	8	2	5	7	2	5	7	4	5	9	3	5	8	5	5	10			
BET20D024	METIL MAHENDRA RANGRAO	2	4	6	3	2	5	3	4	7	3	5	8	5	5	10	3	3	6	5	5	10			
BET20D025	MORE KETAN VIJAY	3	3	6	3	2	5	4	5	9	4	5	9	5	5	10	4	3	7	5	5	10			
BET20D026	MORE MAHESH SUNIL	4	5	9	2	2	4	5	3	8	5	3	8	5	5	10	5	4	9	5	5	10			
BET20D027	PARWADI AYUSH ASHOK	5	3	8	3	3	6	2	2	4	5	3	8	3	3	6	5	5	10	5	5	10			
BET20D028	PATIL ARCHANA MAHADEO	3	4	7	4	4	8	4	3	7	5	4	9	3	4	7	3	3	6	5	5	10			
BET20D029	PAWAR GANESH PANDURANG	2	4	6	5	4	9	4	4	8	3	5	8	4	5	9	3	3	6	5	5	10			
BET20D030	PAWAR RUSHIKESH DNYANESHWAR	3	3	6	3	4	7	5	5	10	2	5	7	5	5	10	4	4	8	5	5	10			
BET19F031	PAWAR SWARALI RAMCHANDRA	4	5	9	2	2	4	5	3	8	5	3	8	5	5	10	5	5	10	5	5	10			
BET19F032	RENUSE ARCHANA SITARAM	5	3	8	4	4	8	2	4	6	4	3	7	5	5	10	5	3	8	5	5	10			



BET20D033	SALUNKE PRATIKSHA PANDURANG	3	4	7	4	5	9	3	3	6	5	3	8	3	5	8	3	3	6
BET20D034	SHAIKH SHAHARUKH SALIM	2	4	6	5	3	8	4	4	8	5	4	9	3	5	8	3	4	7
BET20D035	SHENDGE BHAGYASHRI UMAJI	3	3	6	3	4	7	5	5	10	5	5	10	4	3	7	4	5	9
BET19F036	SUTAR PRATIK ADHIKRAO	4	5	9	2	4	6	3	3	6	3	5	8	5	4	9	5	3	8
BET21D037	SUTAR SHABDASHREE KIRAN	5	3	8	3	3	6	2	2	4	2	5	7	5	5	10	5	3	8
BET16D038	SUTAR SHITAL KASHINATH	3	4	7	2	5	7	3	3	6	3	3	6	5	5	10	3	4	7
BET20D039	TAWARE SHUBHAM LAXMAN	2	4	6	2	3	5	4	4	8	4	2	6	3	5	8	3	5	8
BET20D040	WALHEKAR KOMAL BALASO	3	3	6	2	3	5	5	5	10	5	3	8	3	5	8	4	4	8
CO Attainment	No of students achieving CO	40			40			40			40			40			40		
	% Attainment of CO	100			100			100			100			100			100		
	Attainment Level of CO	3			3			3			3			3			3		



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SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING
 S. No. 237, Satara-Pune, NH-4, Dhangawadi, Tal: Bhor, Dist: Pune -412205 (MS), India.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022 - 2023 , Semester - II

COURSE OUTCOME ATTAINMENT THROUGH CONTINUOUS ASSESSMENT

Class: BE					Course Name: Fiber Optic Communication					
Course Code: 404195					Faculty Name: Asst. Prof. J. J. Bandal					
Goals for CO Attainment	CO	CO301.1		CO301.2	CO301.3	CO301.4	CO301.5			
	Goal %	50		50	50	50	50			
Attainment Level		L1	L2	L3	More than 85 % students achieved	More than 87 % students achieved the	More than 90 % students			
	Level	85	87	90	1	2	3			
Total No of Students	40		CO1	CO 2		CO 3		CO 4	CO 5	CO 6
Roll No	Name of Student		Exp No 1	Exp No 2	Exp No 3	Exp No 4	Exp No 5	Exp No 6	Exp No 7	Exp No 8
BET20D001	BABAR RUTUJA PRADIP		5	6	6	6	7	7	5	9
BET20D002	BHARATI ROHINI LAXMAN		6	5	5	5	2	2	6	7
BET20D003	BHIMANAVARV BASAVARAJ ARJUN		6	5	5	5	8	8	9	8
BET20D004	DESHMUKH SAMEER SATISH		5	5	5	5	7	7	5	5
BET20D005	DEVKAR POONAM DHANAJI		4	4	4	4	6	6	6	6
BET20D006	DHONDE ABHIJEET VITTHAL		5	6	6	6	9	9	2	xc
BET19F007	DUDHANE TEJAS TANAJI		5	9	9	9	7	7	8	5
BET20D008	GADE RUSHIKESH NARAYAN		10	6	6	6	8	8	7	6
BET20D009	GADEKAR NILAM RAMESH		9	5	5	5	5	5	6	9
BET20D010	GHATAKAMBLE SANDEEP SIDHALINGAPP		6	7	7	7	6	6	9	9
BET20D011	JADHAV ANIKET NATHU		5	7	7	7	9	9	7	7
BET20D012	JADHAV JYOTI SANJAY		5		2	2	7	7	8	8



Sign of Faculty: *JJB*

Total No of Students	40	CO1	CO 2		CO 3		CO 4	CO 5	CO 6
BET20D013	JADHAV PRIYANKA TANAJI	5	8	8	8	2	2	5	5
BET18F014	KADAM DHIRAJ SUHAS	4	7	7	7	8	8	6	6
BET20D015	KANSE PAYAL ASHOK	6	6	6	6	7	7	9	9
BET20D016	KASHID DEEPALI BABURAO	9	9	9	9	6	6	7	5
BET20D017	KHOMANE SAGAR BHANUDAS	6	7	7	7	9	9	2	6
BET20D018	KHOPEDE ARATI NAMDEV	5	8	8	8	7	7	8	9
BET20D019	KOKATE ANKITA BALASO	7	5	5	5	8	8	7	9
BET20D020	KOKATE UMESH RAMESH	7	6	2	6	5	5	6	7
BET20D021	KONDHALKAR POOJA RAMCHANDRA	2	5	8	5	6	6	9	8
BET20D022	MALAVI VISHAL SHIVAJI	8	5	7	5	9	9	7	5
BET19F023	MALEKAR KOMAL SANJAY	7	5	6	5	7	7	8	6
BET20D024	METIL MAHENDRA RANGRAO	6	4	9	4	2	2	5	9
BET20D025	MORE KETAN VIJAY	9	6	7	6	8	8	6	5
BET20D026	MORE MAHESH SUNIL	7	9	8	9	7	7	9	6
BET20D027	PARWADI AYUSH ASHOK	8	6	5	6	6	6	5	9
BET20D028	PATIL ARCHANA MAHADEO	5	5	6	5	9	9	6	9
BET20D029	PAWAR GANESH PANDURANG	6	2	5	7	7	7	9	7
BET20D030	PAWAR RUSHIKESH DNYANESHWAR	5	7	5	7	8	8	9	8
BET19F031	PAWAR SWARALI RAMCHANDRA	5	2	5	2	5	5	7	5
BET19F032	RENUSE ARCHANA SITARAM	8	2	4	8	6	6	8	6
BET20D033	SALUNKE PRATIKSHA PANDURANG	5	7	6	7	9	9	5	9
BET20D034	SHAIKH SHAHARUKH SALIM	6	2	9	6	7	7	6	5
BET20D035	SHENDGE BHAGYASHRI UMAJI	8	9	6	9	2	2	9	6
BET19F036	SUTAR PRATIK ADHIKRAO	9	2	5	7	8	8	5	9
BET21D037	SUTAR SHABDASHREE KIRAN	6	8	7	8	7	7	6	5
BET16D038	SUTAR SHITAL KASHINATH	6	5	7	5	6	6	9	6
BET20D039	TAWARE SHUBHAM LAXMAN	6	2	2	6	9	9	9	5
BET20D040	WALHEKAR KOMAL BALASO	5	2	8	9	7	7	7	6
CO Attainment	No of students achieving CO	37	40	35	40	36	36	38	39
	% Attainment of CO	92.50	100.00	100.00	100.00	90.00	90.00	95.00	97.50
	Attainment Level of CO	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

Sign of Faculty:



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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022 - 2023 , Semester - II

COURSE OUTCOME ATTAINMENT THROUGH COURSE END SURVEY

Class: BE	Course: Fiber Optic Communication
Course Code:404195	Faculty Name: Asst. Prof. J. J. Bandal

Attainment Level	L1	L2	L3
	85	87	90
	More than 85 % students indicated attainment	More than 87 % students indicated attainment	More than 90 % students indicated attainment
	1	2	3

Course Outcomes	No. Of Students Indicated Level of Attainment						Total	Percentage (Total X 100/No.Of Students X 5)	Level of Attainment
	Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)				
CO 1	25	8	6	1		177	88.5	3	
CO 2	31	5	2	2		185	92.5	3	
CO3	30	8	1	1		187	93.5	3	
CO 4	35	3	1	1		192	96.0	3	
CO 5	31	7	1	1		188	94.0	3	
CO6	32	5	2	1		188	94.0	3	



Sign. of Faculty Jim



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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Academic Year : 2022 - 2023 , Semester - II

PROGRAM OUTCOME ATTAINMENT

Class: BE	Course: Fiber Optic Communication
Course Code: 404195	Faculty Name: Asst. Prof. J. J. Bandal

CO	CO Attainment Level Through University Result (a)	CO Attainment Level Through Class Test (b)	CO Attainment Level Through Continuous Assessment (c)	CO Attainment Level Through Course End Survey (d)	Total Attainment (a X 0.4) + (b X 0.2) + (c X 0.2) + (d * 0.2)	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO 1	3.00	3.00	3.00	3.00	3.00	3												3		
CO 2	3.00	3.00	3.00	3.00	3.00	2	3	3		2	2							2	3	
CO 3	3.00	3.00	3.00	3.00	3.00	2	3	3		2	2							2	3	
CO 4	3.00	3.00	3.00	3.00	3.00	2	2	3		3								2	3	
CO 5	3.00	3.00	3.00	3.00	3.00	2		3									2	2	3	
CO 6	3.00	3.00	3.00	3.00	3.00	2		3									2	2	3	

PO/PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
PO / PSO Attainment (in %)	3	3	3	0	3	3	0	0	0	0	0	3	3	3	0



J. J. Bandal
Head of Department
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 Dhangawadi, Pune-412206

Sign of Faculty: *J. J. Bandal*