

JAGADAMBHA BAHUUDDESHIYA GRAMIN VIKAS SANSTH'S

JAGADAMB-A





Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.) **Principal**

Dr. Shital A. Watile
M.Sc., Ph.D.
Secretary

JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY YAVATMAL

NAAC

Criteria I

1.3.2 Average Percentage of courses that include experiential learning through project work/field work/internship during the Academic Year 2016-17

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Approved by A.I.C.T.E. & Government of Maharashtra, Affiliated to S.G.B. Amravati University, Amravati.

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INDEX

Sr. No.	1 al ticulai 5	
1	Summary Sheet	I
2	List of courses that include experiential learning through project work/field work/internship during the Academic Year 2016-17	1-19
3	Supporting documents for courses that include experiential learning through project work/field work/internship during the Academic Year 2016-17	20-66



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lagadambha College of Engineering & chnology, Arni Road, Kinhi, Yavatmai

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OF INGINITION OF

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1.3.2 Average Percentages of courses that include experiential learning through project work/field work/internship during the Academic Year 2020-21

SUMMARY SHEET

Sr. No.	Particulars	No. of courses	Page No.
1.	B.E. Electrical Engineering	48	1-2
2.	B.E. Computer Engineering	50	2-3
3.	B.E. Electronics & Telecommunication Engineering	48	3-5
4	B.E. Mechanical Engineering	54	5-6
4.		53	6-8
5.	B.E. Civil Engineering	33	0-0



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1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during the Last five years

Academic Year 2016-17

Sr.	Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering
		112729310	Network Analysis	3EE02	2011-2012
1	B.E. Electrical Engg	112729310	Energy Resources & Generation	3EE03	2011-2012
2	B.E. Electrical Engg	112729310	Electronic Devices & Circuits	3EE04	2011-2012
3	B.E. Electrical Engg	1 .	Electrical Measurement &		
4	B.E. Electrical Engg	112729310	Instrumentation	3EE05	2011-2012
5	B.E. Electrical Engg	112729310	Network Analysis - Lab	3EE06	2011-2012
6	B.E. Electrical Engg	112729310	Electronic Devices & Circuits – Lab	3EE07	2011-2012
7	B.E. Electrical Engg	1-12729310	Electrical Measurement & Instrumentation-Lab	3EE08	2011-2012
		112729310		4EE01	2011-2012
8		112729310	. (7)	4EE02	2011-2012
9	B.E. Electrical Engg	112729310		4EE03	2011-2012
10		112729310	T T T T	4EE06	2011-2012
13			Tale	4EE07	2011-2012
	B.E. Electrical Engg	112729310		5EE01	2012-2013
16	B.E. Electrical Engg	112729310	0 Minneaptroller	5EE02	2012-2013
1		112729310		5EE03	2012-2013
1		11272931		5EE04	2012-2013
1	9 B.E. Electrical Engg	11272931	01 111	5EE06	2012-2013
2	1 B.E. Electrical Engg	11272931	T 1	5EE07	2012-201
-	2 B.E. Electrical Engg	11272931	Microprocessor & Microcontroller	- 5EE08	2012-201
2	B.E. Electrical Engg		Lab	5EE09	2012-201
7	24 B.E. Electrical Engg	11272931	10 Electrical Machines-II – Lab	5EE10	2012-201
-	25 B.E. Electrical Engg	1127293		6EE01	2012-201
-	26 B.E. Electrical Engg	1127293	The state of the s	6EE02	2012-201
-	27 B.E. Electrical Engg	1127293		6EE03	
-	n n Dl string Enga	Ehdin 7293	10 Power Electronics	6EE04	
	29 B.E. Electrical Engg	1127293	O Computer Aided Machine Design	10)

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Wbsite:

00 1	3.E. Electrical Engg		Free Elective-II : Electronic Test	6FEEXT5	2012-2013
10	3.E. Electrical Engg		monuments Thing to Digital	6EE06	2012-2013
1 I	B.E. Electrical Engg		Electrical Energy Utilization	6EE07	2012-2013
32 1	B.E. Electrical Engg	112729310	Power Electronics - Lab	6EEU/	2012-2013
, ,	D.F. Flathing Enga	112729310	Computer Aided Machine Design -	CEEOO	2012-2013
33	B.E. Electrical Engg	112/29510	Lab	6EE08	2012-2013
34	B.E. Electrical Engg	112729310	Electrical Energy Utilization - Lab	6EE09	
35	B.E. Electrical Engg	112729310	Control System-II	7EE01	2013-2014
36	B.E. Electrical Engg	112729310	Power System Operation & Control	7EE02	2013-2014
37	B.E. Electrical Engg	112729310	Electrical Power-II	7EE03	2013-2014
	B.E. Electrical Engg	112729310	Switchgear & Protection	7EE04	2013-2014
WOUNTY -	B.E. Electrical Engg	112729310	Professional Elective-I : Computer Methods in Power System Analysis	7EE05	2013-2014
10	B.E. Electrical Engg	112729310	Project & Seminar	7EE06	2013-2014
10000	B.E. Electrical Engg	112729310	Electrical Power-II - Lab	7EE07	2013-2014
41	B.E. Electrical Engg	112729310	Switchgear & Protection - Lab	7EE08	2013-2014
The same of	B.E. Electrical Engg	112729310	Power System Stability	8EE01	2013-2014
	B.E. Electrical Engg	112729310	High Voltage Engg	8EE02	2013-2014
44		112729310		8EE03	2013-2014
	B.E. Electrical Engg B.E. Electrical Engg	112729310		8EE04	2013-2014
.7	D.F. Flactrical Enga	112729310		8EE05	2013-2014
47	B.E. Electrical Engg B.E. Electrical Engg	112729310		8EE06	2013-2014
48	The Court of the C	112724510		3KE02	2011-2012
49	B.E. Computer Engg	112724510		3KE03	2011-2012
50		112724510		3KE04	2011-2012
51	The state of the s	112724510		3KE05	2011-2012
52	C. School Company (Control of Control of Con		Programing Methodology-Lab	3KE06	2011-2012
	B.E. Computer Engg	112724510		3KE07	2011-2012
1000	B.E. Computer Engg B.E. Computer Engg		Computer Lab-I (Web Technology) 3KE08	2011-2012
_	DE Contra Para	11272451	Data structure	4KE01	2011-2012
-	B.E. Computer Engg	11272451		4KE02	2011-2012
57	Harris Miner Sandan	11272451		4KE03	2011-2012
-	B.E. Computer Engg	11272451	•	4KE04	2011-2012
59	The state of the s	11272451		4KE05	2011-2012
750	B.E. Computer Engg	11272451		4KE06	2011-2012
	1 B.E. Computer Engg	11272451		4KE07	2011-2012
(9)	2 B.E. Computer Engg	11272451		4KE08	2011-2013
1 333	3 B.E. Computer Engg	11272451		- 4KE09	2011-201
6	4 B.E. Computer Engg		lab	5KE01	2012-201
F	5 B.E. Computer Engg	1127245			
-	66 B.E. Computer Engg	112,7245	10 File structure and data processing	5KE02	2012-201

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7 E	3.E. Computer Engg	112724510	System Software	5KE03	2012-2013
2011	3.E. Computer Engg	112724510	Switching theory and logic design	5KE04	2012-2013
	3.E. Computer Engg		Free Elective-I (Production	5FEME05	2012-2013
9 1	S.E. Computer Diags		Mangement)		
10 T	D.F. Computer Enga	112724510	Communication skills	5KE06	2012-2013
	B.E. Computer Engg	112724510	System Software-lab	5KE07	2012-2013
	B.E. Computer Engg B.E. Computer Engg	112724510	Switching theory and logic design-	5KE08	2012-2013
72	B.E. Computer Engg	112/2/310	lab		
	D.F. Ctan Enga	112724510	Communication skills-lab	5KE09	2012-2013
	B.E. Computer Engg	112724510	Operating system	6KE01	2012-2013
_	B.E. Computer Engg	112724510	Database System	6KE02	2012-2013
	B.E. Computer Engg	112724510	Computer resource management	6KE03	2012-2013
	B.E. Computer Engg	112724310	Computer Architecture	6KE04	2012-2013
	B.E. Computer Engg	A TANAH TANAH TANAH TANAH TANAH TANAH	Free elective II: Introduction to	6FEEXT5	2012-2013
78	B.E. Computer Engg	112724510		OI DEPTIE	2012-000
		110701510	Wireless Technology Professional Ethics	6KE06	2012-2013
-	B.E. Computer Engg	112724510		6KE07	2012-2013
80	B.E. Computer Engg	112724510	Operating system-lab	6KE08	2012-2013
81	B.E. Computer Engg	112724510	Database System-lab	6KE09	2012-2013
82	B.E. Computer Engg	112724510	Computer lab-II (Hardware)	7KE01	2013-2014
83	B.E. Computer Engg	112724510	Signal And System	7KE01	2013-2014
84	B.E. Computer Engg	112724510	Computer Networks	7KE02	2013-2014
85	B.E. Computer Engg	112724510	- AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		2013-2014
86	B.E. Computer Engg	112724510		7KE04	The State of the S
87	B.E. Computer Engg	112724510		7KE05	2013-2014
			Graphics	EXTENS	2012 2014
88	B.E. Computer Engg	112724510		7KE06	2013-2014
89	B.E. Computer Engg	112724510	Microprocessor and Interfacing-lab	7KE07	2013-2014
90	B.E. Computer Engg	112724510	Mobile computing-lab	7KE08	2013-2014
91			Project and seminar	7KE09	2013-2014
-	The second secon		Digital signal processing	8KE01	2013-2014
92	B.E. Computer Engg		Embedded system	8KE02	2013-2014
_			Software Engg	8KE03	2013-2014
94			Professional Elective-II:	8KE04	2013-2014
95	B.E. Computer Engg	112/2/31	Multimedia technologies		
	DE C. La Face	11272451	The state of the s	8KE05	2013-2014
	B.E. Computer Engg		0 Embedded system -lab	8KE06	2013-2014
97	The rest of the second	11272451		8KE07	2013-2014
	B.E. Computer Engg			3XT2	2011-2012
99	B.E.Elect.Tel.Comm. Engg	11273721	Applications		
10	0 B.E.Elect.Tel.Comm. Engg	11273721		3XT3	2011-2012
	1 B.E.Elect.Tel.Comm. Engg		0 Electric Drives & Measurements	3XT4	2011-2013
			0 Electronic Devices & Component	S 3XT5	2011-201

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103	B.E.Elect.Tel.Comm. Engg		Computer Programming & Applications-Lab	3XT6	2011-2012
104	B.E.Elect.Tel.Comm. Engg	112737210	Electric Drives & Measurements- Lab	3XT7	2011-2012
105	B.E.Elect.Tel.Comm. Engg	112737210	Electronic Devices & Components Lab	3XT8	2011-2012
106	B.E.Elect.Tel.Comm. Engg	112737210	Communication Engg-I	4XT1	2011-2012
	B.E.Elect.Tel.Comm. Engg	112737210	Electronic Devices And Circuits-I	4XT2	2011-2012
108	B.E.Elect.Tel.Comm. Engg	112737210	Network Analysis	4XT3	2011-2012
	B.E.Elect.Tel.Comm. Engg	112737210	Industrial Management & Quality Control	4XT4	2011-2012
110	B.E.Elect.Tel.Comm. Engg	112737210	Instrumentation	4XT5	2011-2012
_	B.E.Elect.Tel.Comm. Engg	112737210	Electronic Devices And Circuits-I- Lab	4XT6	2011-2012
112	B.E.Elect.Tel.Comm. Engg	112737210	Network Analysis -Lab	4XT7	2011-2012
113	B.E.Elect.Tel.Comm. Engg	112737210	Instrumentation-Lab	4XT8	2011-2012
114	B.E.Elect.Tel.Comm. Engg	112737210	Electronic Devices & Circuits-II	5XT1	2012-2013
	B.E.Elect.Tel.Comm. Engg	112737210	Power Electronics	5XT2	2012-2013
	B.E.Elect.Tel.Comm. Engg	112737210	Control System Engg	5XT3	2012-2013
	B.E.Elect.Tel.Comm. Engg	112737210	Communication Engg -II	5XT4	2012-2013
-	B.E.Elect.Tel.Comm. Engg	112737210	Free Elective I: ENERGY AUDIT & MANAGEMENT	5FEEE5	2012-2013
119	B.E.Elect.Tel.Comm. Engg	112737210	Communication Skills	5XT6	2012-2013
-	B.E.Elect.Tel.Comm. Engg	112737210	Electronic Devices & Circuits-II Lab	5XT7	2012-2013
12:	B.E.Elect.Tel.Comm. Engg	112737210	Power Electronics Lab	5XT8	2012-2013
12:	B.E.Elect.Tel.Comm. Engg	112737210	Communication Engg -II Lab	5XT9	2012-2013
12	B.E.Elect.Tel.Comm. Engg	112737210	Communication Skills Lab	5XT10	2012-2013
12	4 B.E.Elect.Tel.Comm. Engg	112737210	Digital Integrated Circuits	6XT1	2012-2013
12	5 B.E.Elect.Tel.Comm. Engg	112737210	Linear Integrated Circuits	6XT2	2012-2013
12	6 B.E.Elect.Tel.Comm. Engg	112737210	Introduction to Microprocessor	6XT3	2012-2013
_	7 B.E.Elect.Tel.Comm. Engg	112737210	Digital Communication	6XT4	2012-2013
_	8 B.E.Elect.Tel.Comm. Engg	112737210	Free Elective II: Jawa Programming	6FEKE5	2012-2013
_	9 B.E.Elect.Tel.Comm. Engg	11273721	Integrated Circuits Lab	6XT6	2012-2013
-	0 B.E.Elect.Tel.Comm. Engg	11273721	0 Introduction to Microprocessor Lab	6XT7	2012-201
13	1 B.E.Elect.Tel.Comm. Engg	11273721	0 Digital Communication Lab	6XT8	2012-2013

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132	B.E.Elect.Tel.Comm. Engg	112737210	Data Communication Network	7XT1	2013-2014
.33	B.E.Elect.Tel.Comm. Engg	112737210	Microcontroller & Application	7XT2	2013-2014
34	B.E.Elect.Tel.Comm. Engg	112737210	Digital Signal Processing	7XT3	2013-2014
-	B.E.Elect.Tel.Comm. Engg	112737210	Professional Elective I: Artificial Intelligence	7XT04	2013-2014
36	B.E.Elect.Tel.Comm. Engg	112737210	Microcontroller & Application Lab	7XT5	2013-2014
	B.E.Elect.Tel.Comm. Engg	112737210	Digital Signal Processing Lab	7XT6	2013-2014
138	B.E.Elect.Tel.Comm. Engg	112737210	Simulation Lab	7XT7	2013-2014
-	B.E.Elect.Tel.Comm. Engg	112737210	Project & Seminar	7XT8	2013-2014
	B.E.Elect.Tel.Comm. Engg	112737210	UHF & Microwaves	8XT1	2013-2014
	B.E.Elect.Tel.Comm. Engg	112737210	Electronics Circuit Design	8XT2	2013-2014
	B.E.Elect.Tel.Comm. Engg	112737210	Wireless Communication	8XT3	2013-2014
	B.E.Elect.Tel.Comm. Engg	112737210	Professional Elective II: /Digital Image Processing	8XT04	2013-2014
144	B.E.Elect.Tel.Comm. Engg	112737210	UHF & Microwaves Lab	8XT5	2013-2014
45	B.E.Elect.Tel.Comm. Engg	112737210	Electronics Circuit Design Lab	8XT6	2013-2014
146	B.E.Elect.Tel.Comm. Engg	112737210	Project & Seminar	8XT7	2013-2014
147		112761210	Mechanics of Materials	3ME02	2011-2012
	B.E. Mechanical Engg	112761210	Fluid Power -I	3ME03	2011-2012
	B.E. Mechanical Engg	112761210	Engineering Thermodynamics	3ME04	2011-2012
	B.E. Mechanical Engg	112761210	Manufacturing Process-I	3ME05	2011-2012
	B.E. Mechanical Engg	112761210	SOURCE STATE OF THE STATE OF TH	3ME06	2011-2012
1000	B.E. Mechanical Engg	112761210	Fluid Power -I	3ME07	2011-2013
	B.E. Mechanical Engg	112761210		3ME08	2011-2013
	4 B.E. Mechanical Engg	112761210		4ME01	2011-201
_	B.E. Mechanical Engg	112761210		4ME02	2011-201
-	6 B.E. Mechanical Engg		Energy Conversion -I	4ME03	2011-201
100000	7 B.E. Mechanical Engg		Manufacturig Process -II	4ME04	2011-201
11000		112761210		4ME05	2011-201
	8 B.E. Mechanical Engg 9 B.E. Mechanical Engg	112761210	Basic Electrical Drives & Control-	4ME06	2011-201
16	0 B.E. Mechanical Engg	112761210		4ME07	2011-201
7	1 B.E. Mechanical Engg	112761210		4ME08	2011-201
	2 B.E. Mechanical Engg	112761210		4ME09	2011-201
		112761210		4ME10	2011-201
	B.E. Mechanical Engg			5ME01	2012-201
1	64 B.E. Mechanical Engg	11276121		5ME02	2012-201
_	55 B.E. Mechanical Engg	11276121	The state of the s	5ME03	2012-201
-	66 B.E. Mechanical Engg		0 Mesurment Systems	5ME04	2012-201
116	B.E. Mechanical Engg	1246 F24	Theory of Mechines - I	D	2012 20

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68 E	B.E. Mechanical Engg	1 1127612101	Free Elective-I: Basics of Building	5FECE05	2012-2013
			Construction Residue Technology Lab	5ME06	2012-2013
200	B.E. Mechanical Engg		Production Technology-Lab	5ME07	2012-2013
	B.E. Mechanical Engg	Control of the Contro	Heat Transfer-Lab	5ME07	2012-2013
	B.E. Mechanical Engg		Mesurment Systems-Lab		2012-2013
72 I	B.E. Mechanical Engg	112761210	Theory of Mechines - I-Lab	5ME09	2012-2013
73 I	B.E. Mechanical Engg	112761210	Computer Softwere Applications - I- Lab	5ME10	2012-2013
74 1	B.E. Mechanical Engg	112761210	Fluid Power - II	6ME01	2012-2013
_	B.E. Mechanical Engg	112761210	Computer Software Applications	6ME02	2012-2013
	B.E. Mechanical Engg	112761210	Control System Engg	6ME03	2012-2013
	B.E. Mechanical Engg	112761210	Theory of Mechines - II	6ME04	2012-2013
	B.E. Mechanical Engg	112761210	Free Elective-II: Power Supply System	6FEME05	2012-2013
79	B.E. Mechanical Engg	112761210	Communication Skills	6ME06	2012-2013
	B.E. Mechanical Engg	112761210	Fluid Power - II-Lab	6ME07	2012-2013
	B.E. Mechanical Engg	112761210	Computer Software Applications - II-Lab	6ME08	2012-2013
102	B.E. Mechanical Engg	112761210	Theory of Mechines - II-Lab	6ME09	2012-2013
		112761210	Communication Skills-Lab	6ME10	2012-2013
	B.E. Mechanical Engg	112761210	Machine Design & Drawing - II	7ME01	2013-2014
	B.E. Mechanical Engg	112761210	Energy Conversion - II	7ME02	2013-2014
	B.E. Mechanical Engg		Industrial Management & Costing	7ME03	2013-2014
	B.E. Mechanical Engg	112761210	Automation Engg	7ME04	2013-2014
1,111	B.E. Mechanical Engg	112761210	Professional Elective-I:Tool Engg	7ME05	2013-2014
	B.E. Mechanical Engg	112761210		7ME06	2013-2014
189	B.E. Mechanical Engg	112761210	Project & Seminar	/ IVILOO	2013 201
190	B.E. Mechanical Engg	112761210	Machine Design & Drawing - II- Lab	7ME07	2013-2014
191	B.E. Mechanical Engg	112761210	Energy Conversion - II-Lab	7ME08	2013-2014
	B.E. Mechanical Engg	112761210		7ME09	2013-2014
	B.E. Mechanical Engg	112761210	Professional Elective-I:Tool Engg- Lab	7ME10	2013-2014
194	B.E. Mechanical Engg	112761210	Professional Elective-II: Automobile Engg	8ME01	2013-2014
195	B.E. Mechanical Engg	112761210	Professional Elective-II: Machine	8ME02	2013-2014
100	D.E. Machanical Enga	112761210	I.C. Engines	8ME03	2013-2014
	B.E. Mechanical Engg	112761210		8ME04	2013-2014
	B.E. Mechanical Engg	112761210		8ME05	2013-201
	B.E. Mechanical Engg B.E. Mechanical Engg	112761210	Professional Elective-II: Machine	8ME06	2013-201
	1	1107(101)	Tool Design-Lab	8ME07	2013-201
	B.E. Mechanical Engg	112761210		3CE02	2011-201
203	B.E. Civil Engg	112719110			2011-201
202	B.E. Civil Engg	ाविकाम्प्रीत	Transportation Engg-I	3CE03	2011-201

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.03 B	3.E. Civil Engg	1 117/10/11	Building Construction AND Materials	3CE04	2011-2012
04 5	E Civil Enga		Engineering Geology	3CE05	2011-2012
	B.E. Civil Engg		Strength Of Materials - Lab	3CE06	2011-2012
_	B.E. Civil Engg		Transportation Engg - Lab	3CE07	2011-2012
	3.E. Civil Engg 3.E. Civil Engg	112710110	Building Construction AND Materials - Lab	3CE08	2011-2012
08 F	B.E. Civil Engg		Engineering Geology - Lab	3CE09	2011-2012
_	B.E. Civil Engg		Geotechnical Engg-I	4CE01	2011-2012
	B.E. Civil Engg		Fluid Mechanics-I	4CE02	2011-2012
_	B.E. Civil Engg		Theory Of Structures-I	4CE03	2011-2012
_	B.E. Civil Engg	112719110	Sureveying-I	4CE04	2011-2012
_	B.E. Civil Engg	112719110	Reinforced Cement Concrete-I	4CE05	2011-2012
_	B.E. Civil Engg	112719110	Geotechnical Engg-I -Lab	4CE06	2011-2012
_	B.E. Civil Engg	112719110	Fluid Mechanics-I - Lab	4CE07	2011-2012
_	B.E. Civil Engg	112719110	Surveying-I - Lab	4CE08	2011-2012
	B.E. Civil Engg	112719110	Reinforced Cement Concrete-I - Lab	4CE09	2011-2012
218	B.E. Civil Engg	112719110	Reinforced Cement Concrete-II	5CE01	2012-2013
_	B.E. Civil Engg	112719110	Fluid Mechanics-II	5CE02	2012-2013
_	B.E. Civil Engg	112719110	Building Planning AND CAD	5CE03	2012-2013
_	B.E. Civil Engg	112719110	Surveying-II	5CE04	2012-2013
	B.E. Civil Engg	112719110	Free Elective-I (Production Mangement)	5FEME05	2012-2013
222	B.E. Civil Engg	112719110	The second secon	5CE06	2012-2013
-	B.E. Civil Engg	112719110		5CE07	2012-2013
-11 -24	B.E. Civil Engg	112719110		5CE08	2012-2013
226	B.E. Civil Engg	112719110	Surveying-II-Lab	5CE09	2012-2013
_	B.E. Civil Engg	112719110		5CE10	2012-2013
	B.E. Civil Engg	112719110	Numerical Methods AND	6CE01	2012-2013
220	B.E. Civil Engg	112719110		6CE02	2012-2013
	B.E. Civil Engg	112719110		6CE03	2012-2013
	B.E. Civil Engg	112719110		6CE04	2012-2013
	B.E. Civil Engg	112719110	Free Elective-II(Non conventional	6FEME05	2012-201
222	B.E. Civil Engg	112719110	Estimating AND Costing	6CE06	2012-201
	B.E. Civil Engg	112719110	Numerical Methods AND	6CE07	2012-201
225	B.E. Civil Engg	112719110		6CE08	2012-201
	B.E. Civil Engg	112719110		6CE09	2012-201
1 / 50			Minor Project-Lab	6CE10	2012-201
	B.E. Civil Engg	1112/19110	J WILLIOI I TOJECT Dao	0000	

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239	B.E. Civil Engg	112719110	Geotechnical Engg-II	7CE02	2013-2014
_	B.E. Civil Engg	112719110	Structural Design-II	7CE03	2013-2014
_	B.E. Civil Engg	112719110	Environmental Engg-I	7CE04	2013-2014
	B.E. Civil Engg	112719110	Professional Elective-I: Advanced Earthquake Engg	7CE05	2013-2014
243	B.E. Civil Engg	112719110	Theory Of Structures-II - Lab	7CE06	2013-2014
_	B.E. Civil Engg	112719110	Geotechnical Engg-II - Lab	7CE07	2013-2014
_	B.E. Civil Engg	112719110	Structural Design-II - Lab	7CE08	2013-2014
_	B.E. Civil Engg	112719110	Project and Seminar	7CE09	2013-2014
	B.E. Civil Engg	112719110	Water Resources Engg-II	8CE01	2013-2014
	B.E. Civil Engg	112719110	Environmental Engg-II	8CE02	2013-2014
	B.E. Civil Engg	112719110	Project Planning AND Management	8CE03	2013-2014
250	B.E. Civil Engg	112719110	Professional Elective-II: Advanced Waste Water AND Industrial Waste Treatment	8CE04	2013-2014
251	B.E. Civil Engg	112719110	Water Resources Engg-II - Lab	8CE05	2013-2014
	B.E. Civil Engg	112719110	Environmental Engg-II - Lab	8CE06	2013-2014
	B.E. Civil Engg	112719110	Project AND Seminar	8CE07	2013-2014



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Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.) Principal

Dr. Shital A. Watile M.Sc., Ph.D. Secretary

1.3.2 Average percentage of courses that include experiential learning through project work/field Academic Year 2016-17

Sr. No.	Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Project Work	Field work	Interns hip
1	B.E. Electrical Engg	112729310	Network Analysis	3EE02	1		
2	B.E. Electrical Engg	112729310	Energy Resources & Generation	3EE03	1		
3	B.E. Electrical Engg	112729310	Electronic Devices & Circuits	3EE04	1		1
4	B.E. Electrical Engg	112729310	Electrical Measurement & Instrumentation	3EE05	/		1
5	B.E. Electrical Engg	112729310	Network Analysis - Lab	3EE06	1		
6	B.E. Electrical Engg	112729310	Electronic Devices & Circuits – Lab	3EE07	1		1
7	B.E. Electrical Engg	112729310	Electrical Measurement & Instrumentation-Lab	3EE08	1		1
8	B.E. Electrical Engg	112729310	Electrical Machine-I	4EE01	1		1
9	B.E. Electrical Engg	112729310	Electromagnetic Theory	4EE02	1		
10	B.E. Electrical Engg	112729310	Analog & Digital Circuits	4EE03	1		
13 1	B.E. Electrical Engg	112729310	Electrical Machine-I-Lab	4EE06	1		1
14 1	B.E. Electrical Engg	112729310	Analog & Digital Circuits - Lab	4EE07	1		
161	B.E. Electrical Engg	112729310	Control Systems-I	5EE01	1		
1 / 1	B.E. Electrical Engg	112729310	Microprocessor & Microcontroller	5EE02	/		/
18	B.E. Electrical Engg	112729310	Electrical Machines-II	5EE03	1		/
14	B.E. Electrical Engg	1127293105	Signals & Systems	5EE04.	1/2		

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tel / Fax: 07232-291444, Mob.: 9011083260 incipal@jcoet.org, principal.jcoet.org Talk College of Engineering & Wbsite: www.jcoet.or

21	B.E. Electrical Engg	112729310	Communication Skills	5EE06	1	177	
22	B.E. Electrical Engg	112729310	Control Systems- Lab	5EE07	1		
23	B.E. Electrical Engg	112729310	Microprocessor & Microcontroller - Lab	5EE08	1		1
24	B.E. Electrical Engg	112729310	Electrical Machines-II – Lab	5EE09	1		1
25	B.E. Electrical Engg	112729310	Communication Skills - Lab	5EE10	/		
26	B.E. Electrical Engg	112729310	Electrical Power-I	6EE01	1		1
27	B.E. Electrical Engg	112729310	Optimization Techniques	6EE02	1		
28	B.E. Electrical Engg	112729310	Power Electronics	6EE03	/		
29	B.E. Electrical Engg	112729310	Computer Aided Machine Design	6EE04	1		1
30	B.E. Electrical Engg	112729310	Free Elective-II : Electronic Test Instruments - Analog & Digital	6FEEXT 5	1		/
31	B.E. Electrical Engg	112729310	Electrical Energy Utilization	6EE06	1		1
32	B.E. Electrical Engg	112729310	Power Electronics - Lab	6EE07	1		1
33	B.E. Electrical Engg	112729310	Computer Aided Machine Design - Lab	6EE08	/		
34	B.E. Electrical Engg	112729310	Electrical Energy Utilization - Lab	6EE09	/		
35	B.E. Electrical Engg	112729310	Control System-II	7EE01	1		
36	B.E. Electrical Engg	112729310	Power System Operation & Control	7EE02	/		
37	B.E. Electrical Engg	112729310	Electrical Power-II	7EE03	/		1
20	B.E. Electrical Engg	112729310	Switchgear & Protection	7EE04	/		1
20	B.E. Electrical Engg	112729310	Professional Elective-I: Computer Methods in Power System Analysis	7EE05	/		1
10	B.E. Electrical Engg	112729310	Project & Seminar	7EE06	1		1
41	B.E. Electrical Engg	112729310	Electrical Power-II - Lab	7EE07	/		1
12	B.E. Electrical Engg	112729310	Switchgear & Protection - Lab	7EE08	1		1
	B.E. Electrical	112729310	Power System Stability				

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44	B.E. Electrical Engg	112729310	High Voltage Engineering	8EE02	1	
45	B.E. Electrical Engg	112729310	Digital Signal Processing	8EE03	1	
46	B.E. Electrical Engg	112729310	Professional Elective-II : Electric Drives & Control	8EE04	1	
47	B.E. Electrical Engg	112729310	Project & Seminar	8EE05	1	
48	B.E. Electrical Engg	112729310	Digital Signal Processing - Lab	8EE06	/	
49	B.E. Computer Engg	112724510	Programing Methodology	3KE02		
50	B.E. Computer Engg	112724510	Electronic Devices and circuits	3KE03	1	
51	B.E. Computer Engg	112724510	Discret structure	3KE04	1	
52	B.E. Computer Engg	112724510	Computer organization	3KE05	1	/
53	B.E. Computer Engg	112724510	Programing Methodology-Lab	3KE06	/	/
54	B.E. Computer Engg	112724510	Electronic Devices and circuits-lab	3KE07	/	
55	B.E. Computer Engg	112724510	Computer Lab-I (Web Technology)	3KE08	1	
56	B.E. Computer Engg	112724510	Data structure	4KE01	/	1
) / I	B.E. Computer Engg	112724510	Analog & Digital ICS	4KE02	/	1
58	B.E. Computer Engg	112724510	Object oriented programing	4KE03	1	1
59	B.E. Computer Engg	112724510	Assembly language programming	4KE04	/	
0	B.E. Computer Engg	112724510	Theory of computation	4KE05	/	
1	B.E. Computer Engg	112724510	Data structure-lab	4KE06	1	
2	B.E. Computer Engg	112724510	Analog & Digital ICS-lab	4KE07	/	
3 1	B.E. Computer Engg	112724510	Object oriented programing-lab	4KE08	/	1
1 F	B.E. Computer		Assembly language programming-	4KE09	1	1
5 E	B.E. Computer Engg		Data Communication	5KE01	/	1
E	B.E. Computer Engg	112724510 F	File structure and data processing	5KE02	/	1

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6	7 B.E. Computer Engg	11272451	System Software	5KE03	1		
6	8 B.E. Computer Engg	11272451	Switching theory and logic design	5KE04	1		
6	B.E. Computer Engg	11272451	Free Elective-I (Production Mangement)	5FEME05			+
70	B.E. Computer Engg	112724510	Committee	5KE06	/		
7:	B.E. Computer Engg	112724510	System Software-lab	5KE07	1	-	+,
72	B.E. Computer Engg	112724510	Switching theory and logic design-	5KE08	/		/
73	B.E. Commutes	112724510	0	5KE09	/		1
74	B.F. Computor	112724510	Operating system	6KE01	/		/
75	DE Comme	112724510	Database System	6KE02	/		/
76	B.E. Computer Engg	112724510	Computer resource management	6KE03	/		
77	B.E. Computer Engg	112724510	Computer Architecture	6KE04	/		1
78	B.E. Computer Engg	112724510	Free elective II: Introduction to Wireless Technology	6FEEXT	/		'
79	B.E. Computer Engg	112724510	Professional Ethics	5 6KE06	/		1
80	B.E. Computer Engg	112724510	Operating system-lab	6KE07	/		1
81	B.E. Computer Engg	112724510	Database System-lab	6KE08	/		,
82	B.E. Computer Engg	112724510	Computer lab-II (Hardware)	6KE09	/		1
83	B.E. Computer Engg	112724510	Signal And System	7KE01	/		1
	B.E. Computer Engg	112724510	Computer Networks	7KE02	1	all Ye	1
22 1	B.E. Computer Engg	112724510	Microprocessor and Interfacing	7KE03	1		
3(1)	B.E. Computer Engg	112724510	Mobile computing	7KE04	/		
	B.E. Computer Engg	112724510	Professional Elective-I: Computer Graphics	7KE05	1		
	B.E. Computer Engg		Computer Networks-lab	7KE06	1		
9 1	B.E. Computer Engg	112724510	Microprocessor and Interfacing-lab	7KE07			

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90	B.E. Computer Engg	112724510	Mobile computing-lab	7KE08	/	
91	B.E. Computer Engg	112724510	Project and seminar	7KE09	/	
92	B.E. Computer Engg	112724510	Digital signal processing	8KE01	/	
93	B.E. Computer Engg	112724510	Embedded system	8KE02	1	/
94	B.E. Computer Engg	112724510	Software engineering	8KE03	1	/
95	B.E. Computer Engg	112724510	Professional Elective-II: Multimedia technologies	8KE04	1	1
96	B.E. Computer Engg	112724510	Digital signal processing-lab	8KE05	1	1
97	B.E. Computer Engg	112724510	Embedded system -lab	8KE06	1	1
98	B.E. Computer Engg	112724510	Project and seminar	8KE07	/	
99	B.E.Elect.Tel. Comm. Engg	112737210	Computer Programming & Applications	3XT2	1	
00	B.E.Elect.Tel. Comm. Engg	112737210	Electromagnetic Fields	3XT3	1	
01	B.E.Elect.Tel. Comm. Engg	112737210	Electric Drives & Measurements	3XT4	1	1
02	B.E.Elect.Tel. Comm. Engg	112737210	Electronic Devices & Components	3XT5	1	1
03	B.E.Elect.Tel. Comm. Engg	112737210	Computer Programming & Applications-Lab	3XT6	/	1
04	B.E.Elect.Tel. Comm. Engg	112737210	Electric Drives & Measurements- Lab	3XT7	1	1
05	B.E.Elect.Tel. Comm. Engg	112737210	Electronic Devices & Components Lab	3XT8	1	
Dbl	B.E.Elect.Tel. Comm. Engg	112737210	Communication Engineering-I	4XT1	1	1
07	B.E.Elect.Tel. Comm. Engg	112737210	Electronic Devices And Circuits-I	4XT2	1	/
20	B.E.Elect.Tel. Comm. Engg	112737210	Network Analysis	4XT3	1	
29	B.E.Elect.Tel. Comm. Engg	112737210	Industrial Management & Quality Control	4XT4	/	1
10	B.E.Elect.Tel. Comm. Engg	112737210	Instrumentation	4XT5	1	/
11	B.E.Elect.Tel. Comm. Engg	112737210	Electronic Devices And Circuits-I- Lab	4XT6	/	
	B.E.Elect.Tel.		Network Analysis -Lab			

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B.E.Elect.Tel. Comm. Engg	112737210	Instrumentation-Lab	4XT8	/	
R E Fleet Tel		Electronic Devices & Circuits-II			
Comm. Engg	112737210	- Total Bevices & Chedits II	5XT1	1	
B.E.Elect.Tel. Comm. Engg	112737210	Power Electronics	5XT2	1	
B.E.Elect.Tel. Comm. Engg	112737210	Control System Engineering	5XT3	/	
B.E.Elect.Tel. Comm. Engg	112737210	Communication Engineering -II	5XT4	1	
B.E.Elect.Tel. Comm. Engg	112737210	Free Elective I: ENERGY AUDIT & MANAGEMENT	5FEEE5	/	
B.E.Elect.Tel. Comm. Engg	112737210	Communication Skills	5XT6	1	
B.E.Elect.Tel. Comm. Engg	112737210	Electronic Devices & Circuits-II Lab	5XT7	1	
B.E.Elect.Tel. Comm. Engg	112737210	Power Electronics Lab	5XT8	1	
B.E.Elect.Tel. Comm. Engg	112737210	Communication Engineering -II Lab	5XT9	1	
3 B.E.Elect.Tel. Comm. Engg	112737210	Communication Skills Lab	5XT10	1	
B.E.Elect.Tel. Comm. Engg	112737210	Digital Integrated Circuits	6XT1	/	
5 B.E.Elect.Tel. Comm. Engg	112737210	Linear Integrated Circuits	6XT2	1	
6 B.E.Elect.Tel. Comm. Engg	112737210	Introduction to Microprocessor	6XT3	1	
7 B.E.Elect.Tel. Comm. Engg	112737210	Digital Communication	6XT4	1	
8 B.E.Elect.Tel. Comm. Engg	112737210	Free Elective II: Jawa Programming	6FEKE5	1	
9 B.E.Elect.Tel. Comm. Engg	112737210	Integrated Circuits Lab	6XT6	1	
B.E.Elect.Tel. Comm. Engg	112737210	Introduction to Microprocessor Lab	6XT7	1	
B.E.Elect.Tel. Comm. Engg	112737210	Digital Communication Lab	6XT8	1	/
2 B.E.Elect.Tel. Comm. Engg	112737210	Data Communication Network	7XT1	/	
B.E.Elect.Tel. Comm. Engg	112737210	Microcontroller & Application	7XT2	1	/
B.E.Elect.Tel. Comm. Engg	112737210	Digital Signal Processing	7XT3	1	
B.E.Elect.Tel.	112737210	Professional Elective I: Artificial			

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136	B.E.Elect.Tel. Comm. Engg	112737210	Microcontroller & Application Lab	7XT5	1	
137	B.E.Elect.Tel. Comm. Engg	112737210	Digital Signal Processing Lab	7XT6	1	
138	B.E.Elect.Tel. Comm. Engg	112737210	Simulation Lab	7XT7	1	
139	B.E.Elect.Tel. Comm. Engg	112737210	Project & Seminar	7XT8	1	
140	B.E.Elect.Tel. Comm. Engg	112737210	UHF & Microwaves	8XT1	1	/
141	B.E.Elect.Tel. Comm. Engg	112737210	Electronics Circuit Design	8XT2	1	/
142	B.E.Elect.Tel. Comm. Engg	112737210	Wireless Communication	8XT3	1	1
143	B.E.Elect.Tel. Comm. Engg	112737210	Professional Elective II: /Digital Image Processing	8XT04	1	1
144	B.E.Elect.Tel. Comm. Engg	112737210	UHF & Microwaves Lab	8XT5	1	1
1451	B.E.Elect.Tel. Comm. Engg	112737210	Electronics Circuit Design Lab	8XT6	1	1
1451	B.E.Elect.Tel. Comm. Engg	112737210	Project & Seminar	8XT7	/	
14/1	B.E. Mechanical Engg	112761210	Mechanics of Materials	3ME02	1	
1481	B.E. Mechanical Engg	112761210	Fluid Power -I	3ME03	1	
1491	B.E. Mechanical Engg	112761210	Engineering Thermodynamics	3ME04	/	1
5111	B.E. Mechanical Engg	112761210	Manufacturing Process-I	3ME05	1	1
51	B.E. Mechanical Engg	112761210	Mechanics of Material	3ME06	1	1
5/1	B.E. Mechanical Engg	112761210	Fluid Power -I	3ME07	1	1
221	B.E. Mechanical Engg	112761210	Manufacturing Process-I	3ME08	1	
541	B.E. Mechanical Engg	112761210	Basic Electrical Drives & Control	4ME01	1	
221	B.E. Mechanical Engg	112761210 I	Engineering Metallurgy	4ME02	1	
56 E	B.E. Mechanical Engg	112761210 H	Energy Conversion -I	4ME03	/	
57 E	B.E. Mechanical	112761210 N	Manufacturig Process -II	4ME04	1	1
58 B	B.E. Mechanical	112761210 N	Machine Design & Drawing -I	4ME05	1	

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15	B.E. Mechanical Engg	112761210	Basic Electrical Drives & Control- Lab	4ME06	1	1
160	B.E. Mechanical Engg	112761210	F :	4ME07	1	1
16:	Engg	112761210	Energy Conversion -I-Lab	4ME08	1	1
162	Engg	112761210	Manufacturig Process -II-Lab	4ME09	1	1
163	Engg	112761210	Machine Design & Drawing -I-Lab	4ME10	/	1
164	Engg	112761210	Production Technology	5ME01	1	1
165	Engg	112761210	Heat Transfer	5ME02	1	1
166	Engg	112761210	Mesurment Systems	5ME03	1	
167	Engg	112761210	Theory of Mechines - I	5ME04	1	
168	Engg	112761210	Free Elective-I: Basics of Building Construction	5FECE05	/	
169	Engg	112761210	Production Technology-Lab	5ME06	1	
170	B.E. Mechanical Engg	112761210	Heat Transfer-Lab	5ME07	1	1
171	B.E. Mechanical Engg	112761210	Mesurment Systems-Lab	5ME08	1	1
1/2	B.E. Mechanical Engg	112761210	Theory of Mechines - I-Lab	5ME09	/	1
1/3	B.E. Mechanical Engg	112761210	Computer Softwere Applications - I- Lab	5ME10	1	1
1/4	B.E. Mechanical Engg	112761210	Fluid Power - II	6ME01	1	1
1/5	B.E. Mechanical Engg	112761210	Computer Software Applications	6ME02	1	1
1/01	B.E. Mechanical Engg	112761210	Control System Engineering	6ME03	1	
1//	B.E. Mechanical Engg	112761210	Theory of Mechines - II	6ME04	1	
/XI	B.E. Mechanical Engg		Free Elective-II: Power Supply System	6FEME05	1	
/91	B.E. Mechanical Engg		Communication Skills	6ME06	1	1
XIII	B.E. Mechanical Engg	112761210	Fluid Power - II-Lab	6ME07	1	1
XII	B.E. Mechanical Engg	112761210	Computer Software Applications - II-	6ME08	1	

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182	B.E. Mechanical Engg	112761210	Theory of Mechines - II-Lab	6ME09	1	
183	B.E. Mechanical Engg	112761210	Communication Skills-Lab	6ME10	1	/
184	B.E. Mechanical Engg	112761210	Machine Design & Drawing - II	7ME01	1	1
185	Engg	112761210	Energy Conversion - II	7ME02	/	1
186	Engg	112761210	Industrial Management & Costing	7ME03	1	1
187	B.E. Mechanical Engg	112761210	Automation Engineering	7ME04	1	1
188	B.E. Mechanical Engg	112761210	Professional Elective-I:Tool Engineering	7ME05	1	
189	B.E. Mechanical Engg	112761210	Project & Seminar	7ME06	1	
190	B.E. Mechanical Engg	112761210	Machine Design & Drawing - II- Lab	7ME07	/	
191	B.E. Mechanical Engg	112761210	Energy Conversion - II-Lab	7ME08	/	
192	B.E. Mechanical Engg	112761210	Automation Engineering-Lab	7ME09	1	
193	B.E. Mechanical Engg	112761210	Professional Elective-I:Tool Engineering-Lab	7ME10	1	/
194	B.E. Mechanical Engg	112761210	Professional Elective-II: Automobile Engineering	8ME01	1	/
195	B.E. Mechanical Engg	112761210	Professional Elective-II: Machine Tool Design	8ME02	/	/
MnI	B.E. Mechanical Engg	112761210	I.C. Engines	8ME03	/	1
9/1	B.E. Mechanical Engg	112761210	Operation Research Techniques	8ME04	1	
YXI	B.E. Mechanical Engg	112761210	Project & Seminar	8ME05	/	
991	B.E. Mechanical Engg		Professional Elective-II: Machine Tool Design-Lab	8ME06	1	
1 11 1 1	B.E. Mechanical Engg		I.C. Engines-Lab	8ME07	1	
	B.E. Civil Engg	112719110	Strength Of Materials	3CE02	/	
02 E	B.E. Civil Engg		Transportation Engineering-I	3CE03	1	/
03 E	B.E. Civil Engg	112719110	Building Construction AND Materials	3CE04	1	/
	B.E. Civil Engg	112719110	Engineering Geology	3CE05	1	/
	B.E. Civil Engg	112719110	Strength Of Materials - Lab	3CE06	1	/
06 B	B.E. Civil Engg	112719110	transportation Engineering - Lab	3CE07	1	/

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	B.E. Civil Engg		Building Construction AND Materials - Lab	3CE08	1	1	1
20	08 B.E. Civil Engg	11271911	0 Engineering Geology - Lab	3CE09	-		
20	9 B.E. Civil Engg	11271911	0 Geotechnical Engineering-I		1		1
21	0 B.E. Civil Engg	11271911	Fluid Mechanics-I	4CE01	1		
21	1 B.E. Civil Engg	11271911	Theory Of Structures-I	4CE02	/		
21	2 B.E. Civil Engg	11271911		4CE03	/	1	
21	3 B.E. Civil Engg	112719110		4CE04	/	1	
21	4 B.E. Civil Engg	112719110	Geotechnical Engineering-I -Lab	4CE05	/		
21.	5 B.E. Civil Engg	112719110		4CE06	1		
21	6 B.E. Civil Engg	112719110	_ Lall	4CE07	/		
	B.E. Civil Engg	112719110	Painfan 16	4CE08 4CE09	1	/	+
218	8 B.E. Civil Engg	112719110	Reinforced Cement Concrete-II	5CE01	,		
219	B.E. Civil Engg	112719110	Fluid Mechanics-II	5CE01	1		
220	B.E. Civil Engg	112719110	Building Planning AND CAD	5CE02 5CE03	1		1
221	B.E. Civil Engg	112719110	Surveying-II	5CE03			/
	B.E. Civil Engg	112719110	Eroo Election I (D. 1. 1	5FEME05	1	/	1
223	B.E. Civil Engg	112719110	Communication Skills	5CE06	,	Carlin.	
224	B.E. Civil Engg	112719110	Fluid Mechanics-II-Lab	5CE06	1		1
225	B.E. Civil Engg	112719110	Building Planning AND CAD- Lab	5CE07	1		1
226	B.E. Civil Engg	112719110	Surveying-II-Lab	5CE09	1	,	1
227	B.E. Civil Engg	112719110	Communication Skills-Lab	5CE10	1	1	/
	B.E. Civil Engg	112719110	Numerical Methods AND Computer Programming	6CE01	1		
229	B.E. Civil Engg	112719110	Structural Design-I	6CE02	/		
230	B.E. Civil Engg	112719110	Water Resources Engineering-I	6CE02			
231	B.E. Civil Engg	112719110	Transportation Engineering-II	6CE04	1	1	
	B.E. Civil Engg	112719110	Free Elective-II(Non conventional	SFEME05	1	/	/
233	B.E. Civil Engg	112719110	Estimating AND Costing	6CE06	1		
	B.E. Civil Engg	112719110	Numerical Methods AND Computer Programming-Lab	6CE07	/		
235	B.E. Civil Engg		Structural Design-I-Lab	6CE08	,		
236	B.E. Civil Engg	112719110	Estimating AND Costing-Lab		/		/
	B.E. Civil Engg	112719110	Minor Project-Lab	6CE10	/	,	/
238	B.E. Civil Engg		Theory Of Structurs-II	6CE10 7CE01	1	/	1
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240 I	B.E. Civil Engg	112719110	Structural Design-II	7CE02	/	,	/
241 E	B.E. Civil Engg	DO - WINDS - THE RESIDENCE - NO. 1	Environmental Engineering-I		1	1	/
	3.E. Civil Engg	112719110	Professional Elective-I: Advanced Earthquake Engineering	7CE04 7CE05	1	/	1
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		100	South and the Paris Lan	7CE06	1		

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	B.E. Civil Engg	112719110	Geotechnical Engineering-II - Lab	7CE07	1		
	B.E. Civil Engg	112719110	Structural Design-II - Lab	7CE08	1		
	B.E. Civil Engg	112719110	Project and Seminar	7CE09	1	1	1
	B.E. Civil Engg	112719110	Water Resources Engineering-II	8CE01	1	1	1
248	B.E. Civil Engg	112719110	Environmental Engineering-II	8CE02	1		1
249	B.E. Civil Engg	112719110	Project Planning AND Management	8CE03	1		1
250	B.E. Civil Engg	112719110	Professional Elective-II: Advanced Waste Water AND Industrial Waste Treatment	8CE04	1		1
251	B.E. Civil Engg	112719110	Water Resources Engineering-II - Lab	8CE05	/	1	
	B.E. Civil Engg	112719110	Environmental Engineering-II - Lab	8CE06	1	1	1
253	B.E. Civil Engg	112719110	Project AND Seminar	8CE07	1	_	V



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3EE03/3 EP03/3EX03 ELECTRICAL MACHINE - I

Course Outcomes:

After Completing this course, students will be able to:

- Explain the construction and working of DC Machines.
- 2. Illustrate the different Characteristics, types, their applications and parallel Operation of D.C. Generators.
- 3. Demonstrate the various characteristics, starting, speed control and braking operation on DC motors
- Analyze the performance of DC machines by conducting the various tests on it.
 Determine the parameters of equivalent circuits, performance parameters of single phase transformer and merits & demerits of autotransformer
- 6. Explain the construction, working, different connections, applications and testing of three phase transformer.

D.C. Machines: Construction, Principle of Operation, EMF Equation, Torque Equation. Armature winding - Lap, wave, single layer, double layer. Armature Reaction and commutation, method of improving commutation.

D.C. Generators: Types, Characteristics and Applications of D. C. Generators, Parallel Operation of D.C. Generators, Introduction to testing of D. C. Generators as per Indian standard.

D.C. Motors: Types, Characteristics & Modified Characteristics, Applications of D.C. Motors. Starting, Electric Braking, Speed Control of DC Motors. Losses, efficiency and testing of DC Motors.

Unit IV:

Single phase Transformer: Working Operation, EMF Equation, and separation of core losses in to its component. Equivalent Circuit, Parallel Operation. Open Circuit, Short Circuit & Sumpner's test on transformer as per Indian standard. Single phase Autotransformer: - construction, working, merits, demerits and its application.

Three Phase Transformer: Construction, Working, Types, connections, vector group connections, open delta Connection, OC, SC, Heat run test, load test, magnetic balance, vector group test on three phase transformer.

Three Phase Transformer: Three-winding transformer, On load & Off load tap changers, Scott Connection, Power transformer and Distribution transformer. Waveforms of no load current & inrush current phenomenon.

Electrical Machines by D P Kothari & I J Nagrath Published by Tata McGraw-Hill Book Comp. New Delhi.

- 1) C. Dawes: Electrical Engineering, Vol.I: Direct current (IV Edition), (McGraw Hill Book Company)
- 2) H. Cotton: Advance Electrical Technology, (Wheeler publication)
- 3) Indian Standard Guide for testing DC Machine. IS: 9320-1979, (Indian Standards Institution, New Delhi.)
- 4) Indian Standard Specification for safety transformer. IS: 1416-1972, (Indian Standards Institution, New Delhi.)

3EE04/3 EP04 - ENERGY RESOURCES AND GENERATION

A student, on completion of this course, will be able to:

- 1. Explain the operation of Thermal, Hydro, Nuclear and Diesel power plants.
- 2. Summarize solar energy conversion, solar radiation measuring instruments, wind energy conversion and
- 3. Outline the principle and operation of fuel cells, ocean & tidal energy conversion, and other nonconventional energy resources.
- 4. Determine the various factors and curves related to electrical load & generating plant.

Unit I:

Conventional and non conventional energy sources, Indian Energy Scenario.

Thermal and hydro power plant: Langua by Thermal power plant, Selection of site, working of various parts: Economizer, air preheater, condenser, codeng tower, esh &coal handling plant, advantages & disadvantages

Layout of Hydro power plant, classification of hydro power plant according to available head, nature of load functions of different components and their working minimax unicro hydro-electric power generation, advantages disadvantages. micro hydro-electric power generation, advantages &

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Unit II

Nuclear and Diesel power plant: nuclear fission and fusion, Layout of Nuclear power plant, Selection of site, Functions of different components of nuclear plant, types of nuclear reactors, advantages & disadvantages of different nuclear reactors, nuclear waste disposal., safety measures.

Layout of Diesel power plant, functions of different components of diesel plant, advantages & disadvantages.

Unit III

Solar Energy and its measurement: Solar cell, array & module, Solar constants, solar radiation at earth's surface, Solar radiation geometry, solar radiation measurement, estimation of average solar radiation, solar radiation on tilted surface, principle of solar energy conversion in to heat, types of solar collectors, energy balance equation and collector efficiency.

Unit IV:

a[Fuel cells: Chemistry applied to fuel cells, principle and operation ,classification and types of fuel cells, performance characteristics of fuel cells, classification of fuel cell system.

b]Wind energy :Basic principle of wind energy conversion, wind data and energy estimation, selection of site ,basic components of wind energy conversion system ,classification of WEC systems ,generating system, applications of wind energy.

Unit V:

Ocean, Tidal & Other non-conventional energy resources: Ocean energy resources, ocean energy routes, ocean thermal energy conversion, basic principle of tidal power, components of tidal power plants, operation methods of utilization of tidal energy, estimation of power and energy in single and double basin tidal system,. Operating principles of energy from biomass, energy from biogas, geothermal energy, MHD power generation, energy from urban and rural waste.

Unit VI

Load-Generation factors: connected load, maximum demand, demand factor, load factor, diversity factors, plant capacity and utilization factor, types of loads, load curve, chronological load curve, load duration curve, energy load curve, energy duration curve, load survey, base load and peak load station.

Text Book: Generation of electrical energy by B.R.Gupta, Eurasia Publishing House, New Delhi.

Reference Books:

- 1. Non conventional energy resources. By G.D.Rai, Khanna Publishers New Delhi
- 2. Solar energy by S.P.Sukhatme Tata McGraw Hill Publication
- 3. Principles of Power System by V.K.Mehta, S.Chand publication.
- 4. Conventional energy technology by S.B.Pandya, Tata McGraw Hill Publication.

3EE05/3 EP05ELECTRONIC DEVICES AND CIRCUITS

Course Outcomes:

After successfully completing the course, the students will be able to;

- 1. Demonstrate the knowledge of semiconductor physics and PN Junction Diode
- 2. Analyze the rectifier and regulator circuits.
- Analyze the operational parameters of BJT
- 4. Analyze various multistage amplifier circuits
- 5. Demonstrate the knowledge of JFET, MOSFET, UJT and their operational parameters

UNIT-I:

P-N Junction diode theory. Energy bands in intrinsic and extrinsic silicon, carrier transport, diffusion current, drift current, mobility and resistivity, generation and recombination of carriers, PN junction diode, zener diode, zener diode as voltage regulator, Numericals based on voltage regulator (line and load regulation, Numericals based on resistivity, conductivity, mass action law)

UNIT-II

Half wave, full wave center tapped full wave and bridge rectifier. Filters-C, LC and their analysis, clipping and clamping, Numericals based on clipping and clamping

UNIT-III:

Theory and Analysis of Bipolar Langtion transistor, 'H' Parameter, methods of biasing, their needs, 'Q' and stability factors, compensation techniques

Principal

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Technology, Ami Road, Kinhi, Yavatmal



CERTIFICATE

This is to certify that the project report entitled

"FOOT STEP POWER GENERATION USING PIEZOELECTRIC TRANSDUCER"

Submitted by

Adarsh V. Gawai

Pranshu S. Umale

Rupesh M. Datey

Yogesh N. Suroshe

Kanchan R. Khasale

Ragini V. Jiotode

In a partial fulfillment of the requirements for the award of degree of Bachelor of Engineering in Electrical Engineering of Sant Gadge Baba Amravati University, Amravati and is bonafide work carried out and completed under my guidance and supervision during the session 2016-2017.

Prof. Dr. V. G. Neve (Head of Department)

Dr. H. M. Baradkar (Principal)

Prof. K. M. Kamble (Project Guide)

ESTD 2009

External Examiner

Jagadambha Callega of Engineering & Technology Aral Road, Kinhi, Tavetm

ABSTRACT

In this project, some of the shortcomings in the existing system have been proposed to be rectified. The advances have allowed numerous ways for power harvesting systems in practical applications in order to meet the power demand. The use of piezoelectric crystal is to generate electric output from surrounding vibrations. Piezoelectric materials have a crystalline structure that they can convert mechanical energy into electrical charge and is vice-versa. These materials have the ability to absorb mechanical energy from their surroundings, usually ambient vibration, and transform it into electrical energy that can be used to power other devices.

The produced electrical energy from the piezoelectric crystal is very low in the order of 2-3volts and is initially stored in a 2v rechargeable battery through a charge controller, since it is not possible to charge a 12V battery through crystal output. In order to increase the voltage, the boost converter circuit is used. The use of boost converter is to increase the level of voltage ranges about 12V and is stored in a 12V battery. In order to supply power to the load an inverter circuit is required by which the generated voltage is fed to the CFL lamp. This project can be implemented in dense populated areas like railway station, bus stands etc. where more amount of vibration energy will be obtained. As a result of completing the above procedure or technique we made ourselves able to design such compatible system through which we could run our home appliances through AC output.

As our main purpose was to charge the battery through DC output and then by inverting it into AC for normal common usage. Thus as a result we have concluded that these types of designs and techniques of power generating systems are very useful and handy in order to match the supply and demand of energy globally as well.



Dr. Hernant M. Baradkar Principal Jagadambha Cellege of Engineering & Technology Ami Read, Kinhi, Yayalm



CERTIFICATE

This is to certify that the project Report entitled

"ENERGY METER THEFT DETECTION"

Submitted by

Ms. Shrawani U. Bire

Ms. Samiksha R. Kuratkar

Mr. Anuj S. Tundalwar

Ms. Sneha M. Kalekar

Mr. Avinash D. Pajgade

Mr. Vaibhav B. Godhankar

in a partial fulfillment of the requirements for the award of degree of Bachelor of Engineering in Electrical Engineering of Sant Gadge Baba Amravati University,

Amravati and is bonafide work carried out and completed under my guidance and supervision during the session 2016-2017.

ESTD

009

Prof.

(External)

Prof. Dr. V. G. Neve

(Head of Department)

Prof. S.O. Gulhane (Project Guide)

Dr. H. M. Baradkar

(Principal)

Jagadambha Cellege of Engineering & Technology Arel Reed, Kinki, Yavatm

ABSTRACT

The Aim of our project is to minimize the theft of the electricity, because of the theft the organisation like MSEB, is in under loss. So for improvement of quality of power and elimination of theft, our energy meter theft detection circuit is usable.

The energy meter theft detection system detect the theft occur in domestic area. By using GSM model, MSEB monitor each and every energy meter. If any customer try to do theft, then sensor sense the theft and signal provide to GSM model. GSM model gives message to the MSEB and the theft will be detected.

In this circuit, the single phase, two wire supply is given to the energy meter and the optocoupler is connected after the energy meter. It separate the ac and de supply. The various sensors are used to detect the fault.



Dr.Hemant M. Baradkar Principal Jagadambha dallege af Engineering &

Technology Arni Reed, Kinhi, Yayatm



CERTIFICATE

This is to certify that the project Report entitled

DETECTION AND CLASSIFICATION OF TRANSMISSION LINE FAULTS USING WAVELET TRANSFORM"

Submitted by

Ms. Pallavi S. Dambhare.

Mr. Akshay V. Ghavat

Mr. Ritesh B. Uike

Ms. Ankita A. Punse

Mr. Amit B. Petkar

Ms. Dhanashri G. Gaynar

In a partial fulfilment of the requirements for the award of degree of Bachelor of Engineering in Electrical Engineering of Sant Gadge Baba Amravati University, Amravati and is bonafide work carried out and completed under my guidance and supervision during the session 2016-2017.

Prof. Dr. V. G. Neve

(Head of Department)

Prof.A.V.Mohitkar

(Project Guide)

Dr. H. M. Baradkar (Principal)

External Examineer

Dr. Hemai Principal

Jagadambha Callage 41 Engineering & echnology Arei Raad, rinki, Yayatm

ABSTRACT

Proper detection of various faults occurring on the transmission line is very essential. In this project, detection and classification of some these faults is done based on the information conveyed by the wavelet analysis of power systems transients.

Maximum norm values, maximum detail coefficient, energy of the current signals are calculated from the Wavelet Toolbox in MATLAB/Simulink. Maximum normal value and energy of the signals detects the fault and threshold detail coefficient classifies the fault into different types such L-G, L-L, L-L-G, L-L-L.

Wavelet Transform decomposes current and voltage signals into high and low frequency components using Quadrature Mirror Filter.

High frequency components gives the detail coefficients, while low frequency components gives approximation components

Detail coefficients detects and classify the various transmission line faults and approximation coefficients estimates the pharos for all signals, through which fault impedance can be computed.



Dr. Hemant M. Baradkar
Principal
Jagadambha vallege of Engineering &
echnology Aini Read, Kinki, Yavatm

Unit II: Data link Layer

(Hours: 6)

Data Link Layer: Introduction, Nodes & Links, Services, Two categories of link, Two sub-layers, Error detection and correction: Introduction, Block Coding, Cyclic codes, Checksum, Forward Error Correction, Data link control: DLC services, Data-Link Layer Protocol, HDLC, Point-To-Point Protocol, Media Access Control (MAC): Random Access, Controlled Access, Channelization.

Unit III: Network Layer

(Hours: 7)

Introduction to Network layer Network Layer Services: Packetizing, Routing and Forwarding, Other Services Packet Switching: Datagram Approach: Connectionless Service, Virtual-Circuit Approach: Connection-Oriented Service, Network Layer performance: Delay, Throughput, Packet Loss, Congestion Control, IPV4 Address: Address Space, Classful Addressing, Classless Addressing, Dynamic Host Configuration Protocol (DHCP), Network Address Resolution (NAT), Forwarding of IP packets: Forwarding Based on Destination Address, Forwarding Based on Label, Routers as Packet Switches

Unit IV: Network Layer Protocol

(Hours: 7)

Network Layer Protocols: Internet Protocol (IP), Datagram Format, Fragmentation, Security of IPv4 Datagrams, ICMPV4: Messages, Debugging Tools, ICMP Checksum, Mobile IP: Addressing, Agents, Three Phases, Inefficiency in Mobile IP, Routing algorithms: Distance Vector routing, Link State Routing, IPV6 Addressing: Representation, Address Space, Address Space Allocation, Auto configuration, Renumbering, Transition from IPV4 to IPV6: Strategies, Usc of IP Addresses

Unit V: Transport Layer

(Hours: 6)

Introduction to Transport layer: Introduction, Transport-Layer Services, Connectionless and Connection-Oriented Protocols, Transport-Layer Protocols: Simple Protocol, Stop-and-Wait Protocol, Go-Back-N Protocol (GBN), Selective-Repeat Protocol, Bidirectional Protocols: Piggy backing, User Datagram Protocols: User Datagram, UDP Services, UDP Applications, Transmission Control Protocol: TCP Services, TCP Features . Segment, A TCP Connection, State Transition Diagram, Windows in TCP, Flow Control, Error Control, TCP Congestion Control, TCP Timers, Options, SCTP: SCTP Services, SCTP Features

Unit VI: Application layer

(Hours: 7)

Introduction to Application layer: Providing Services, Application-Layer Paradigms, Client-Server Programming: Application Programming Interface, Using Services of the Transport Layer, Iterative Communication Using UDP, Iterative Communication Using TCP, Concurrent Communication, World wide web and HTTP: World Wide Web, Hyper-Text Transfer Protocol (HTTP) FTP: Two Connections, Control Connection, Data Connection, Security for FTP, Electronic Mail: Architecture, Web-Based Mail, E-Mail Security, Domain Name System (DNS):Name Space, DNS in the Internet, Resolution, Caching, Resource Records, DNS Messages, Registrars, Security of DNS, Network Management: Introduction. Configuration Management, Fault Management, Performance Management, Security Management, Accounting Management, SNMP: Managers and Agents, Management Components, ASN.1: Language Basics, Data Types, Encoding.

Text Book: Behrouz A. Forouzan: Data Communication and Networking, (5/e) (TMH).

Reference Books:

- 1. William Stallings: Data & Computer Communications, 6/e, Pearson Education
- 2. William L. Schweber: Data Communication, McGraw Hill
- J.Freey: Computer Communication & Networks, AEW Press
 D. Corner: Computer Networks & Internet, Pearson Education.

4KS03 OPERATING SYSTEM

Course Pre-requisite:

Discrete Structures, Data Structure, Any programming Language

Course Objectives:

- To make students aware of the kernel and shell structure of the operating systems.
- 2. To make students aware of the purpose, structure and functions of operating systems
- To equip students with understanding of the various scheduling algorithms in OS.
 To make students aware of understanding of memory management in different OS.

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

- Explain memory management issues like external fragmentation, internal fragmentation.
- 2. Illustrate multithreading and its significance.
- List variou List various projection and security mechanisms of OS. Analyze and solve the scheduling algorithms.
- 4.

Angioro the deadlock viablion and resolve it. Compare various types of operating systems



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Unit I: Introduction to OS (Hours: 7)

Introduction: Operating System definition, OS Evolution, Components and Services, Process Concept, Process Scheduling, Operations on Processes, Cooperating Processes, Interprocess Communication, Threads Overview, Multithreading Models, Threading Issues, Java Threads

Unit II: Process Scheduling (Hours: 7)

Foundation and Scheduling objectives, Types of Schedulers, Scheduling criteria: CPU utilization, Throughput, Turnaround Time, Waiting Time, Response Time; Scheduling algorithms: Pre-emptive and Non pre-emptive, FCFS, SJF, RR, Priority, Multilevel Queue, Multilevel Feedback Queue Scheduling

Unit III: Process Synchronization (Hours: 6)

Process Synchronization Basics: The Critical-Section Problem, Synchronization Hardware, Semaphores, Monitors, Deadlocks: Definition & Characterization, Deadlocks Prevention, Avoidance, Detection and Recovery from Deadlock

Unit IV: Memory Management (Hours: 7)

Memory Management Background, Swapping, Contiguous Memory Allocation Schemes, Paging, Segmentation, Virtual Memory Management: Background, Demand paging scheme, Process Creation, Page Replacement Policies, Allocation of Frames, Thrashing

Unit V: Unit Title: File System (Hours: 7)

File-System Interface; Directory Structure, File-System Mounting, File Sharing &Protection, File-System Structure, File-System Implementation, Directory Implementation, Allocation Methods, Free-Space Management. File Recovery

Unit VI: Unit Title: I/O System (Hours:6)

I/O Systems: Overview, I/O Hardware, Application I/O Interface, Kernel I/O Subsystem, Transforming I/O to Hardware Operations , Disk Scheduling, Disk Management, Swap-Space Management, RAID

Text Book: Avi Silberschatz, P.B.Galvin, G.Gagne: "Operating System Concepts" (9/e) John-Wiley & Sons.

Reference Books:

A.S.Tanenbaum "Modern Operating Systems" Pearson Education.

William Stallings "Operating Systems" Prentice-Hall.
 D. M. Dhamdhere "Operating Systems" Tata McGraw-Hill.

4. P. Balkrishna Prasad: "Operating Systems" Scitech Publications (I) Pvt. Ltd.

4KS04 MICROPROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING

Course Pre-requisite: Computer Programming and Computer Fundamentals

Course Objectives:

1. To explore 8086 microprocessor and its architecture.

To introduce interfacing techniques of 8086 microprocessor.

3. To introduce basics of Internet of Things

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

1. Describe 8086 microprocessor and its architecture; also understand instruction processing during the fetch-decode-execute cycle.

Design and Test assembly language programs using 8086 microprocessor instruction set.

3. Demonstrate the implementation of standard programming constructs, including control structures and functions, in assembly language.

Illustrate and realize the Interfacing of memory & various I/O devices with 8086 microprocessor.

Explain the basic concepts of Internet of Things

Unit I: 8086 Architecture (Hours: 7)

8086 architecture and pin configuration, Software model of 8086 microprocessor. Memory addresses space and data organization. Data types. Segment registers, memory segmentation. IP & Data registers, Pointer, Index registers. Memory addresses generation.

Unit II: 8086 Instruction Set

8086 Instruction set overview, addressing modes. 8086 instruction formats. 8086 programming: Integer instructions and computations: Data transfer instructions, Arithmetic instructions and their use in 8086 programming.

Unit III: 8086 Instruction Set (Hours: 6)

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8086 programming. Rose instructions. Shift and rotate instructions and their use in 8086 programming. 8086 flag rand rotate instruction, control flow and jump instructions. 8086 flag reaster and Flag of Loops & loop handling instruct 8086 programming using these instructions.

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Unit IV: Pushdown Automata (Hours: 8)

Introduction and Definition of PDA, Construction of PDA, Acceptance of CFL, Equivalence of CFL and PDA: Inter-conversion, Introduction of DCFL and DPDA, Enumeration of properties of CFL, Context Sensitive Language, Linear Bounded Automata.

Unit V: Turing Machines (Hours: 8)

Formal definition of a Turing Machine, Design of TM, Computable Functions, Church's hypothesis, Counter machine, Variants of Turing Machines: Multi-tape Turing machines, Universal Turing Machine.

Unit VI: Decidability and Un-Decidability (Hours: 8)

Decidability of Problems, Halting Problem of TM, Un-Decidability: Recursive enumerable language, Properties of recursive & non-recursive enumerable languages, Post Correspondence Problem, Introduction to Recursive Function Theory.

Text Books:

- 1. Hoperaft H.E. & Ullman J: Introduction to Automata Theory, Languages and Computation.
- 2. Peter Linz: An Introduction to Formal Languages and Automata.

Reference Books:

- 1. Rajesh K. Shukla: Theory of Computation, CENGAGE Learning, 2009.
- 2. K V N Sunitha and N Kalyani: Formal Languages and Automata Theory, McGraw Hill, 2010
- 3. Lewis H.P. and Papadimition C.H.: Elements of Theory of Computation
- 4. Mishra & Chandrashekharan: Theory of Computation
- C.K.Nagpal: Formal Languages and Automata Theory, Oxford University Press, 2011.
 VivekKulkarni: Theory of Computation, OUP India, 2013

4KE06 COMPUTER NETWORK - LAB

Course Pre-requisite: Computer and Data Communication Requirements

Course Objectives:

- To understand the working principle of various communication protocols
- To understand and analyze the signal flow in a digital communication system.
- 3. To analyze error performance of a digital communication system in presence of noise and other
- To evaluate the errors using various error detection & correction techniques.
- To understand network based protocols in data communication and networking.

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

- Analyze performance of various communication protocols
- Implement Configure various network protocols.
- 3. Compare IP Address classes of networks.

List of Experiments:

This is a sample list of Experiments; minimum 12 experiments are to be performed covering the entire syllabus. At least two experiments should be beyond syllabi based on learning of syllabi (Apply)

- 1. To study various LAN topologies and their creation using network devices, cables and computers.
- To connect the computers in Local Area Network.
- 3. Familiarization with Networking Components and devices: LAN Adapters, Hubs, Switches, Routers etc.
- Write a program of bit stuffing used by Data Link Layer
- 5. Write a program to implement CRC(Cyclic Redundancy Check)
- 6. Write a program to implement Checksum
- Write a program to implement Sliding window
- Write a program to implement Sliding window
 Configure Internet connection and use IP-Config, PING / Tracer and Net stat utilities to debug the
- 9. Configuration of TCP/IP Protocols in Windows and Linux.
- 10. Transfer files between systems in LAN using FTP Configuration, install Print server in a LAN and share the printer in a network.
- 11. Write a C Program to determine if the IP Address is in Class A, B, C, D, or E
- 12. Write a C Program to translate Dotted Decimal IP Address into 32 Bit Address.
- 13. Configure Host IP, Subnet Mask and Default Gateway in a System in LAN(TCP/IP Configuration)

4KE07 OPERATING SYSTEM - LAB

Course Pre-requisite: Basic computer programming

Course Objectives:

- To make students aware of the kernel and shell structure of the operating systems.

To make students as an are of dropsy pose, structure and functions of operating systems
 To equip students and understanding of the various scheduling algorithms in OS.
 To make students aware of understanding of memory management in different OS.

Principal 1 had ampha College of Engineering & .-Innv. erni Road, Kinhi, Yavatr

Winhi, Yaven

Certificate

Certified that this B.E. Seminar Report titled

"Wireless Mouse & Keyboard Using Smartphone"

By

Miss. Rajlaxmi C. Gade

Miss. Vaishnavi B. Shinde

Miss. Shubhangi S. Shirfule

Miss. Sanskruti U. Pakale

Mr. Vitthal S. Pariskar

of final year (B.E) during the academic year 2016-2017 is for the partial fulfillment for requirement of the award of the degree of Bachelor of Engineering in Computer Engineering under Sant Gadge Baba Amravati University, Amravati.

Prof. Sachin A. Murab

(Guide)

(Head of Department)

Dr. H. M. Baradkar (Principal)



Department of Computer Engineering

Jagadambha College of Engineering & Technology,

Yavatmal, (M.S), India-445001

Session 2016-2017

Dr.Hemant M. Baradkar Principal Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

ABSTRACT

This is the gesture based sixth sense technology that controlled output display devices like monitor. This system can control content on the screen by using gesture of fingers without touching this screen. This technology has seamless applications. This provide easy control over the machinaries in the industries. The physical world around us with digital information and let us use natural hand gestures to interact with that information. Using this system we convert the real world into digital world. The gesture computing is the best technology that allows hand or the movement of fingers as input control. In this webcam is play most important role, it capture the movement of fingers or recognize the color of finger and handle whole work and functionality of the system. In the project scripting language python is used as a backend of the project. Human-Computer Interaction (HCI) exists ubiquitously in our daily lives. It is usually achieved by using a physical controller such as a mouse, keyboard or touch screen. It hinders Natural User Interface (NUI) as there is a strong barrier between the user and computer. There are various hand tracking systems available on the market, but they are complex and expensive. In this paper, we present the design and development of a robust marker-less hand/finger tracking and gesture recognition system using low-cost hardware. We propose a simple but efficient method that allows robust and fast hand tracking despite complex background and motion blur. Our system is able to translate the detected hands or gestures into different functional inputs and interfaces with other applications via several methods. It enables intuitive HCI. We developed sample applications that can utilize the inputs from the hand tracking system. Our results show that an intuitive HCI can be achieved with minimum hardware requirements.

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Dr.Hemant M. Baradkar Principal Jagadambha College of Engineeri Technology, Arni Road Kind

CERTIFICATE

Certified that this B.E. Project Report titled



by

Ms. Manisha S. Meshram

Mr. Dhananjay A. Bhagat

Ms. Rekha S. Rathod

Mr. Rushikesh R. Embadwar

Ms. Gauri S. Alshi

(Final Year, Computer Engineering)

Of final year (B.E) during the academic year 2016-2017 is for the partial fulfillment for requirement of the award of the degree of Eachelor of Engineering in Computer Engineering under Sant Gadge Baba Amravati University, Amravati.

Pra A. VI. Dhore

Prof. P. D. Thakare

(Project Guide)

(Head of Department)

Prof. Dr. H. M. Baradkar

(Principal)



DEPARTMENT OF COMPUTER ENGINEERING

JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY,

YAVATMAL, (M.S), INDIA-445001

Session 2016-2017

EST 2009

Dr. Hemant M. Baradkas Principal Smadambha College of Engineering 8

e-Voting is a fully web based voting software solution based on network security. With the access control capabilities and the reliability, the network security has premendously increased in providing authenticity and security. The present system conducts the elections manually, which takes lot of effort for conducting, maintaining and evaluating the voting process. This Automation helps in overcoming all the above mentioned problems and also helps in avoiding any kind of tempering that can be done. Rather than employing expensive consultants to print and mail paper ballots or setup and manage your elections, e-Voting puts the power of online voting in the hands of election administrators.

This project makes use of Java Servlets which provides a Java-based solution used to address the problems currently associated with doing server-side programming. Servlets are objects that conform to a specific interface that can be plugged into a Java-based server. Servlets are to the server-side what applets are to the client-side. Security is provided by RSA algorithm which is an ASSYMETRIC cryptographic algorithm with a pair of keys used for encryption and decryption.

EST 200-

Dr. Hemant II. Baradka Principal Jagadambha College of Engineering Pachnology Arni Road Vision

Course Outcomes:

After successfully completing the course, the students will be able to:

- 1. Justify the basic concepts of object-oriented programming such as data types, functions, classes, objects, constructors, inheritance, overloading etc.
- Design, implement, test, and debug simple programs in C++.
- 3. Describe how the class mechanism supports encapsulation and information hiding.
- 4. To know the concept of operator overloading
- 5. Understand inheritance in C++
- Design and test the implementation of Java programming concepts

	Subject: OBJECT ORIENTED PROGRAMMING	L		
Unit-1	Principles of object-oriented Programming: OOP'S paradigm, basic concept of OOP'S, benefits of OOP'S, Four pillars of OOP, structure of C++ programming, basic data types.			
Unit-2	User defined data type, derived data type, Abstract data types in C++, operators and control statement, Functionsin C++: Functions, Function over loading, Friend Functions and virtual functions.	06		
Unit-3	Classes and objects in C++: Types of classes and its use, concept of object and its implementation, constructor and destructors.	06		
Unit-4	Operator and their definition, overloading unary and binary operator, rules for overloading operators, overloading binary operators using friends and string manipulation.	06		
Unit-5	Inheritance in C++: Extending classes: Multilevel Inheritance, Multiple inheritances, Hierarchical inheritance, Hybrid inheritance, Virtual base classes and Abstract classes.	06		
Unit-6	Introduction to Java programming, JVM, Java programming constructs: variables, primitive data types, identifier, literals, operators, expressions, primitive type conversion and casting, Basics of classes, objects, creating objects, and methods in Java.	06		
	Total	36		

Text Books:

- E Balagurusamy, "Object Oriented Programming Using C++ and JAVA", Tata McGraw-Hill.
- 2. E Balagurusamy, "Object Oriented Programming Using C++", Tata McGraw-Hill.

Reference Books:

- 1. Bjarne Stroustrup, "C++ Programming Language", Pearson Education.
- 2. H.M.Dietel and P.J.Dietel, "Java How to Program" Pearson Education/PHI, Sixth Edition.
- 3. Robert Lafore, "Object-Oriented Programming in C++ ", Pearson Education India, (4th Edition).
- 4. Herbert Schildt, "Java: The Complete Reference" Tata McGraw-Hill (7th Edition).
- 5. Yeshwant Kanetkar "Let us C++", BPB Publications.
- 6. Dr. N.B. Vekateswarlu, Dr. E.V. Prasad, "Learn Object Oriented Programming Using Java: An UML Based",
- S. Chand Publication.

3ETC08: OBJECT ORIENTED PROGRAMMING -LAB.

Course Requisite:

- 1. Computer Programming
- 2. 3ETC05 Object Oriented Programming

Course Objectives:

- 1. Design, implement, test, and debug simple programs in an object-oriented programming language.
- Design and test the implementation of C++ programming concepts.
- 3. Design and test the implementation of java programming concepts.

Course Outcomes:

After successfully completing the course, the students will be able to

- 1. Justify the basics of object-oriented design and the concepts of encapsulation, abstraction, inheritance, and polymorphism.
- 2. Design, implement, test, and debug simple programs in an object-oriented programming language.
- 3. Describe how there are meeting ism supports encapsulation and information hiding.
- 4. Design and test the implementation of C++ and java programming concepts.

Principal Jagadamphs College of Engineering \$ Technology, Ami Road, Kinhi, Yavatitia!

Certificate

This is to certify that the dissertation emittled "OBJECT IDENTIFICATION FOR BLIND PEOPLE USING IMAGE PROCESSING" is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.

Submitted by

Ms. Rajashri A. Urkutkar

Ms. Vaibhavi D. Raut

Ms. Rani S. Bhabutkar

Mr. Nakul V. Penore

Ms. Vidya G. Kularkar

Ms. Neha S. Bhedurkar

Prof. A. R. Dudhe

Guide

EXTC Engg.Deptt

A Dought.

Prof. K. L.Thakare

Project Co-ordinator

EXTC Engg. Deptt.

Dr. A. D. Shelotkar

HOD

EXTC Engg Deptt

Dr. H. M. Baradkar

Principal

J.C.R.T Yavatmal

Dr.Hemant M. Baradkar

Jechnology Arni Roxd, Kinhi Mavatir

Self-Dependency of blind people is very important in their day-to-day lives. In this presents a cost effective prototype system to help blind persons to shop independently. As we know printed text is everywhere like product names, instructions on medicine bottles, restaurant menus, signed boards etc. To read these text blind and visually impaired people need some help. In this presents a camera-based assistive product label reader for blind persons to read information of the products. It is hard to detect text due to the variations of text font, sizes, text, clutter background and different orientation. In this Camera is used to captured the image of the product. Then captured image is processed internally using different algorithms such as SURF Algorithm, and text recognition algorithm to extract text the label from image by using MATLAB. The extracted text label is converted to audio output using text to speech converter and it is pronounced as audio to the blind person.

Keywords: Assistive devices, blindness, hand-held objects, text reading, and text region localization, camera-based label reader, text localization and text recognition algorithm, MATLAB, text to speech converter.



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Department of Electronics & Telecommunication Engineering JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY, YAVATMAL



CERTIFICATE

This is to certify that the dissertation entitled "DETECTION OF LOCATION & MINIMIZING ERROR USING MOBILE ANCHOR IN WSNs" is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.

Prof. V. R. Thakare

Guide

EXTCEngg.Deptt

Prof. K.L.Thakare

Project Coordinator

EXTC Engg.Deptt.

Dr. A. D. Shelotkar

HOD

EXTC Engg.Deptt

2009

Dr.H.M. Baradkar

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Dr. Hemant M. Baradkar

Jagadambha Callage of Engineering & Technology Arni Read, Kinhi Yavatm

Accurate and low-cost sensor localization is a critical requirement for the deployment of wireless sensor networks in a wide variety of applications. Many applications require the sensor nodes to know their locations with a high degree of precision. Various localization methods based on mobile anchor nodes have been proposed for assisting the sensor nodes to determine their locations. However, none of these methods attempt to optimize the trajectory of the mobile anchor node. Accordingly, this project presents a path planning scheme, which ensures that the trajectory of the mobile anchor node minimizes the localization error and guarantees that all of the sensor nodes can determine their locations. The obstacle-resistant trajectory is also proposed to handle the obstacles in the sensing field. Later this path planning algorithm is adjusted so that it suits most of the effective localization algorithms. The performance of the proposed scheme is to be evaluated through a series of simulations with the ns-2 network simulator.

Keywords- Localization, Wireless Sensor Networks (WSNs), GPS, mobile anchors, Chord selection, beacons, Approximate Point-in-Triangulation, Path Planning Based Localization.



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RECOMMENDED BOOKS:

Text books:

- 1. Thermal engineering; Mahesh M Rathore; Tata McGraw-Hill
- 2. Thermal Engineering R. Yadav; Central publication
- 3. Non-conventional Energy Sources B. H. Khan Tata McGraw-Hill
- 4. Non-conventional Energy Sources G. D. Rai.

Reference books:

- 1. Steam Turbine; Kearton; Oscar Publications.
- 2. Thermal Power Engineering; Mathur Mehta; Tata McGraw-Hill
- 3. Power Plant Engineeirng. P. K. Nag
- 4. Power Plant Engineeirng; R. K. Rajput; Laxmi Publications
- 5. Thermal Engineering, P.L.Ballaney; Laxmi Publications.

4ME03

MANUFACTURING TECHNOLOGY

Course Learning Objectives:

- 1. To study the mechanics of metal cutting, tool characteristics and cutting forces
- To study the turning operations using lathe and CNC machines
- To study the working of drilling and boring machines
- To study the working of milling and gear cutting machines
- To study the machining operations using grinding, shaper, planer and slotter machines
 To study the unconventional machining processes

Course Outcomes:

Students will be able to -

- 1. Apply the knowledge of theory of metal cutting, tool selection & calculate cutting forces
- 2. Demonstrate the knowledge of basics of turning operations
- Understand the drilling and boring operations and working of drilling & boring machines
- 4. Understand the milling and gear cutting operations and working of respective machines
- 5. Understand the working of grinding, shaper, planer and slotter machines
- 6. Understand the knowledge of unconventional machining processes

SECTION - A

UNIT I: Theory of Metal cutting: Mechanics of Metal cutting, Tool material, Tool Geometry, Cutting tool classification, Tool life, Tool wear, Calculation of Cutting forces, Machinability, Cutting fluids, Chip thickness ratio, Merchant circle. (8 Hrs)

UNIT II : Construction, Operations and accessories of centre lathe, introduction of capstan & turret lathe, indexing mechanism, bar feeding mechanism, Machine tool classification. Numerical approach. Taper turning & Screw cutting & basic concept of CNC. Introduction, working principal & CNC turning operation.

UNIT III: a) Drilling operation: Drilling M/cs general purpose, Mass production and special purpose drilling M/cs. b) Introduction & types of Boring, Boring M/c:- Horizontal, Vertical and jig Boring M/c. Introduction to Broaching and its types, broach terminologies, etc.

SECTION - B

UNIT IV: (a) Calculation of machining time for Milling.

(b) Milling M/c: Types, Types of Milling Cutters, Dividing head, Compound and differential idexing

c) Gear producing M/cs.

a)Grinding Machines: Bench grinders, surface grinders, centreles grinders, types of bonds & Abrasive modification of grinding wheels,

b) Study of various part & Operation of Shaper, Planer, Slotter.

UNIT VI: Unconventional Machining Processes:-

Road, Kinhi, Yava

Mechanical Processes:- Ultrasonic Machining - principle and applications. process parameters: Abrasive and water parameters involved.

Thermal mocesses - Election Beam Machining - Generation of beam, principle and applications: Laser Beam machining applications: Plasma-are machining- Concept and generation of plasma, principle of PAM, applications.

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(6 Hrs)

(6 Hrs)

40



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JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL - 445001

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

THIS IS TO CERTIFY THAT "MR. GAURANG J. PANDE, MR. KETAN M. GAWANDE, MR. DINESH G. NAKADE, MR. AJIT A. KALE, MR. NITIN H. GULHANE, MISS PRAGATI A. RAIMAL, MISS DIPALI R. DHAWALE" OF FINAL YEAR MECHANICAL ENGINEERING STUDENT HAS SUBMITTED THE PROJECT REPORT ON THE "DEVELOPMENT OF MULTIFUNCTIONAL PROGRAMMABLE WORKSTATION" TO MY SATISFACTION AND SUBMITTED THE SAME DURING THE ACADEMIC YEAR 2016 – 2017 TOWARDS THE PARTIAL FULLFILLMENT OF DEGREE OF BACHELOR OF ENGINEERING UNDER SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI.

Prof. P. V. Bhendarkar Project Guide

Rus (6/2013

Mech. Engg. Dept.

Dr. V. L. Bhambere H.O.D. Mech. Engg. Dept.

DATE : | 1 / 6 /2017

PLACE: YAVATMAL



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Jagadambha College of Engineering & Technology, Arci Poed, Kinhi, Yavatmat

The Mechanism deals with creating profiles and cutting of profiles of objects, structures, components using programming. Currently, various printers, plotters are available in market. But their mechanism differs with this one. In our mechanism, we are providing movable work piece & tool platform in x, y, & z direction. The motion is controlled by using motors & some programmes & commands. It's uniqueness & simple structure makes it comfortable & attractive. Here we require studying programming languages available, motor programming & the interference of program with the hardware. We are going to study all these & finally a suitable, easy to operate mechanism CAD model & a working prototype will be created.

Moreover in future, we can add number of operations to this mechanism like cutting, 3d printing, drilling. Thus, it results in a unique programmable cutter, drill or 3d printing mechanism.

Keywords :- CAD model , prototype

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Unit V: Basic principle, construction & applications of sensors and transducers, contact - non- contact type, optical proximity sensors. Switches, contact type, magnet type, electromagnetic type, sound, light, pressure, vibration transducers, Hall effect-sensors A.C./D.C. Tachogenerators.

Unit VI: Industrial applications - classes of duty selection of an electric drive for particular applications such as steel mill, paper mill, cement mill, textile mill, sugar mill, electric traction, coal mining, etc. Induction heating, surface hardening & Dielectric heating.

BOOKS RECOMMENDED:

Text Books:

- 1. A First Course on Electrical Drives - S.K. Pillai.
- 2. Basic Electrical Technology (Vol. 11) - B.L. Theraja

Reference Books:

- Drives and Control N. Dutta
- 2 Mechatronics - W. Bolton, Addison Wesley, Longman Ltd.
- 3. A Course in Electrical, Electronics Measurement and Instrumentation, By A.K. Sawhney, Dhanpat Rai & Sons,

4ME09 BASIC ELECTRICAL DRIVES AND CONTROL - LAB

List of Experiments:

Any EIGHT practicals from the following list:

- To study the Specification of Various Electrical Machines.
- To study the D.C. Motor Starters. 2.
- To study the Running and Reversing of D.C. Motor. 3.
- Speed Measurements using Magnetic Pick-up.
- 5. To study the Speed reversal of counter Current Breaking of 3-phase Induction Motor.
- 6. To control the speed of D.C. Motor by a) Armature Control b) Field Control.
- 7. To perform Load Test on Induction Motor.
- To study Dynamic/Rheostatic Breaking of D.C. Motor. 8.
- To study Characteristics of Thyristor.
- To study the speed -Torque Characteristic of Servo Motor.

4ME05

HYDRAULIC AND PNEUMATIC SYSTEMS

Course Learning Objectives:

- 1. To get fundamental background about the hydroelectric power plants
- To study operation, working principle & performance characteristics of hydraulic turbines
- 3. To study operation, working principle & performance characteristics of centrifugal pump, reciprocating pump and other hydraulic pumps
- 4. To study the behavior of compressible fluid flow
- To study different hydrostatic & hydro kinematics industrial applications

Course Outcomes:

Students will be able to -

- 1. Demonstrate basic concepts of prime movers and turbines
- 2. Utilize the knowledge of centrifugal and reciprocating pumps for applications
- 3. Reveal the importance of other water lifting devices
- 4. Solve the elementary treatment on compressible fluid flow
- 5. Understand the concept of hydrostatic and hydrokinetic systems
- 6. Use the knowledge of hydraulics & pneumatics in developing project work.

SECTION - A

Unit 1: Hydraulic Turbines - Theory of impulse and reaction turbines. Pelton, Francis and Kaplan turbines, their construction, classification, analysis, characteristics and governing, draft tube. (10 Hours)

A Engineer Unit II : Centrifugal pumps . Basic Theory ification, construction, operation, characteristics, multistage, NPSH and cavitations in (7 Hours)

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DEPARTMENT OF MECHANICAL ENGINEERING

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> Prof. V. R. Pannase Project Guide Mech. Engg. Dept.

Dr. V. L. Bhambere HOD. Mech. Engg. Dept.

DATE: /2017

PLACE: YAVATMAL



Dr. H. M. Baradkar Principal

J.C.O.E.T. Yavatmal

Or Hemant M. Baradicar Principal Jagadambha College of Engineering & Technology, Arni Road, Kinhi, Yavatrigi

The performance of solar cell govern by the different environmental as well as physical factors the investigated research work addresses that the maximum conversion efficiency of photo voltaic cell is up to 16-20%. In these research work we are propose to improve the performance photo voltaic cell with the use of different spectrum of emitted photon. Overall this research work emphasis on implementation of pleasant research to satisfy future demand of power through the use of renewable resource.

India being a home to a huge population witnesses high Incident Solar radiations throughout the year. Planning has been made to produce at least 20 Gig watts of high quality solar power by the year 2020. Energy harvested from the sun is a necessarily a valuable source but still most it part goes unutilized in Indian subcontinent although being a tropical region. The main obstacle for the wide usage of solar Photovoltaic systems is their efficiency which is very low (20-25% for single crystal 10-15% for polycrystalline and 3.5% for amorphous silicon solar cells and high cost of manufacturing. In main objective behind the work in this project lies in extracting maximum harvestable power from a Photovoltaic module and use the energy for a DC application as well as the grid connection of the generated power so that the surplus power unutilized in the load can be transferred to the grid. The methods of improvement involve Maximum power point tracking used to improve overall power output from the system and use color filters and Fresnel lens to enhance total irradiance and thereby reducing the reflection of sunlight through the cell. The best method of efficiency improvement is found out.

Keywords:- photo-voltaic cell, polycrystalline, spectrum light, efficiency.



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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2020 - PART TWO - 228

Unit-VI: Tunnel and Bridges: Tunnels- necessity, types, tunnel alignment, Size and shape of tunnels, and Tunnel lining. Tunnel drainage, ventilation & lighting of tunnels. Bridge Engineering-Components, classification and identification, data collection, site selection, economic span, Estimation of flood discharge, water way, scour depth, depth of foundation, Afflux, clearance and free board, different structural form - culverts, types of foundation, abutments, piers and wing wall.

Books Recommended:

- 1) Khanna S.K. & Justo C.E.: Highway Engineering
- 2) Rao G.V.: Principles of Transportation & Highway Engg.
- 3) Dr.KadiyaliL.R.: Traffic Engg. & Transport Planning.
- 4) BindraS.P.: Principles & Practice of Bridge Engg.
- 5) Saxena & Arora: Railway Engineering.
- 6) Agrawal M.M.: Railway Engineering.
- 7) Khanna S.K., Arora M.G., Jain S.S.: Airport Planning & Design,
- 8) Srinivasan: Tunnel Engineering.
- 9) Shrarma S.K.: Principles, Practice & Design of Highway Engg.
- 10) Duggal A.K. &Puri V.P.: Laboratory Mannual in Highway Engg.

3CE05 - CONCRETE TECHNOLOGY & RCC

Learning Objectives of Subject:

- 1. To understand basic construction material Cement, its property and suitability tests.
- 2. To learn about meaning of concrete, strength of concrete, mixing proportion and suitability test.
- To understand meaning of RCC and its need.
- 4. To learn various properties of concrete and use of different admixtures.
- To learn about special concrete materials and methods.
- 6. To be able to perform mix design of concrete

Course outcomes:

At the end of the subject the students will be able -

- 1. To know need and composition of binding material, cement.
- 2. To recognize concrete and RCC and will be able to perform desired test for suitability,
- To analyze RCC Components like slab and lintels.
- 4. To decide and utilize the admixtures as per the need of Concrete.
- To understand importance of mix design.

SECTION-A

Unit I: Cement: Physical properties of Portland cement, laboratory tests on cement, types of cements. Aggregate: Classification of aggregate, physical properties, bulking and moisture content, specific gravity, bulk density.

Unit II:Properties of fresh concrete: Workability of concrete, methods of measuring workability, nominal mix, mixing, centering & formwork, placing, compaction and curing of concrete. Properties of hardened concrete: Grades of concrete, properties of concrete, compressive, tensile, and shear strength, modulus of elasticity, creep, shrinkage.Durability of concrete, laboratory tests on concrete.

Unit III: Basic elastic theory and concept of reinforced concrete, types of reinforcement, Analysis of rectangular sections by working stress method, modes of failure, design of singly reinforced beams, one-way slabs (s supported lintels, andchajjas.

SECTION-B

2 9 Chil IV. Pozzolana and Admixtures: Plasticizer, retarders, accelerators, water proofing agents, factorioly, dmilitar, kinhi, Yavatmal IS code provisions. Construction chemicals: concrete curing compounds, polymer bonding agent, surface retarders, bondaid for plastering, protective and decorative coating.

Unit V. Spacial concrete Dandy Mix Concrete Light weight concrete fiber reinforced concrete Dallar comparted

CERTIFICATE

This is to certify that the Project Entitled

"COMPARITIVE STUDY AND DESIGN OF RCC AND PRESTRESS

CONCRETE BRIDGE GIRDER WITH (COMPUTER

PROGRAMMING) MS. EXCEL SHEET

Has been successfully completed by

SHITAL V. RATHOD

PAVAN J. DAHANE

SANKALP S. DANGORE

MAYUR G. GOSAVI

SHANTANU R. BAJAD

VAISHNAVI S. AGRAWAL

SHUBHAM D. BARDE

UTKARSHA C.-UJAWANE

CHETAN A. MATARMARE

In partial fulfillment for the degree of

Bachelor of Engineering (Civil Engineering)

Awarded by

Sant Gadge Baba Amravati University, Amravati, (M. S)

During academic year 2016-2017 under my guidance

Guided by

Prof S.S. KENDHE

Assistant Prof. (Civil Department) Jagadambha College of Engineering and Technology Yavatmal

EST

2005

Head of Civil Department

Jagadambha College of Engineering And Technology,

Yavatmal.

Dr. H.M. Baradkar Principal

Jagadambha College of Engine and Technology,

Yavatmal

Jagadambha Collsung Technology Arni Roce

We are going to work on the comparison between R.C.C. bridge girder and pre-tensioned bridge girder. This work includes the design of R.C.C. bridge girder and pre-tensioned bridge girder. The aim of this work is to design of R.C.C as well as pre-stressed concrete bridge girder by analyzing manually and then analyzing in MS Excel by formulation sheets and then compare the results. The idea is to reach a definite conclusion regarding the superiority of the two techniques over one another. Prestressed concrete is useful for big spans and rapid completion of construction works. Prestressed concrete mainly used in buildings, bridges and towers. In this project the design of Prestressed girder elements are discussed, various methods and their suitability for the design are discussed, mainly concentrated on Indian standard code method and Indian road congress.

The purpose of present study is the design of bridge structure for 25 m of spans. The most obvious choice of this span is the box girder and because of which the comparative study of Prestress and R.C.C in this thesis is covered by the mean of box girder. The study is based on the basis of moment of resistance of section, Shear forces at end and middle of the spans, the ultimate goal of study is to determine most favorable option from above two comparison in between the Prestress and R.C.C bridge girder.

Keywords:-Box girder, Prestress, R.C.C, I.S, I.R.C

ESTO 2009

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Jagadambha College of Engineering & Technology Arrit Road, Kinbi Yavatmal

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2020 - PART TWO - 230

- 1. Determination of Los Angeles value
- 2. Determination of Abrasion value of Aggregates by the use of devil machine
- 3. Determination of Aggregate Impact value
- 4. Determination of Aggregate Crushing value
- Determination of Flakiness and Elongation Index of Aggregate.
- 6. Determination of Viscosity of Bituminous material
- 7. Determination of softening point of bituminous material,
- 8. Determination of ductility of bitumen.
- 9. Determination of marshal stability value

3CE09 CONCRETE TECHNOLOGY & RCC - LAB

List of Practicals in Concrete Technology & RCC Lab (Minimum eight practical from the list should be performed):

- Mix Design (Compulsory) by IS method.
- Compulsory site visit and submission of site visit report.
- 3. Fineness of cement
- 4. Soundness of cement
- 5. Consistency and setting time of the cement
- 6. Compressive strength of cement
- 7. Sieve analysis of aggregate.
- 8. Bulking of sand (fine aggregate).
- 9. Silting of sand.
- 10. Workability by slump cone test compaction factor test
- 11. Admixture: Density, Compatibility Test
- 12. Workability by flow table method.
- 13. Compressive & Tensile strength of concrete.

FOURTH SEMESTER

4CE01 BUILDING PLANNING DESIGNING & CAD

Learning Objectives of Subject:

- 1. To understand need of engineering drawings and methods to draw it.
- 2. To learn about various planning principles and able to apply on residential buildings.
- 3. To understand seasonal and climatic condition and corresponding provisions in structure.
- To know regional rules regulation related to building construction.
- 5. To learn various types of plan Block , Site , Line , Detail , Section etc.
- 6. To learn about smart buildings.

Course outcomes:

At the end of the subject the students will be able -

- To make engineering drawings by First angle and Third angle method.
- 2. To apple building planning principles practically while developing projects.
- To study the climatic conditions and decide the corresponding provision in structure.
- To know about Bylaws, Town development authority rules and terms.
- To draw various plans manually and computationally. Engineering &

SECTION-A

Jagadambha College of Engineering &

EST Dit importance of building drawing for Civil Engineering in construction & industry, esternation, Aschartman available 200 gales for various drawings. Types of line and theirapplication. Methods of dimensioning in architectural drawing. Abbregations and graphical symbols used in Civil Engineering Drawing as per IS: 962. Compare first angle and thing ingle method of projection. Layout of sheet for civil engineering drawing. Requirements of drawing and documents as per plan sanctioning authorities. Define FSI and TDR.

CERTIFICATE

This is to certify that the Project Entitled

"COMPARATIVE ANALYSIS OF LATERAL LOAD RESISTING SYSTEM FOR RCC STRUCTURE"

has been successfully completed by

BHAVINI V. UKEY

SHUBHAM S. NAKSHANE SHUBHAM P. DHOKE

SHUBHAM S. HANDE TRUPTI A. MANKAR

SONALI B. MUNDE GUNJ D. RATHOD

TUSHAR R. WAGH KUNAL R. JAWADE

In partial fulfillment for the degree of

Bachelor of Engineering (Civil Engineering)

Awarded by

Sant Gadge Baba Amravati University, Amravati, (M. S)

During academic year 2016-2017 under my guidance

Guided by

Prof. A. V. GORLE

Department of Civil Engineering Jagadambha College of Engineering and Technology Yavatmal

2009

Head of Civil Department

Jagadambha College of Engineering and

Technology. Yavatmal.

Dr. H. M. Baradkar

Principal Jagadambha College of Engineering

Technology, Yavatmal.

adka)

In enchanting the world of buildings with new innovative ideas of lateral load resisting system. As these structures are extended vertically and they are going to with stand the lateral loads in an enormous intensity. Seismic loads are occasional forces on structures that may occur during their life time. Buildings should be able to withstand in minor earthquakes without any structural damage and during major earthquakes without total collapse. Therefore, it is important to know the behavior of buildings for different types of lateral load resistant structural systems. In the present work, an attempt has been made to evaluate the structural behavior of various lateral load resisting systems. The detailed investigations have been carried out on four types of structural systems which include one basic moment resisting frame, other two with different combinations of frame with shear wall & last is diagrid system. This project report provides an investigation has been carried out over a 20, 30 & 40 storey RCC structure using different lateral load resisting system. The stiffness and configuration of those identified elements play a major role in determining the design force levels in the elements. The structural systems used in this project report are "beam column system", "frame tube system", "shear wall with frame system" and "diagrid system". Analysis has been carried out using response spectrum method and gust factor method. The basic modelling technique and assumption are made by using ETABS 15.0.0 software and other consideration are made according to the Indian Standard. A comparison of the storey displacement, storey forces and time period of the whole structure is done for different configuration of lateral load resisting systems. At the completion of the study the conclusion will be arrived and stated regarding to the effect of seismic load application.

Keywords: Storey displacement, Bracing, Frame Tube, Stiffness, Diagrid, Shear Wall, Dynamic, Response Spectrum Analysis, ETABS.

ESTD 2005 Trumpood Life in the state of the

Dr. Hemant M. Baradkar Principal Jagadambha College of Engineering & Schnology, Arni Road, Kinhi, Yavatmal



Regd. No. 1892/2009

408, Nilgiri Block, Aditya Enclave, Ameerpet, Hyderabad-38. Ph. 09985943539

Certificate of Merit

This is to certify that

Mr. /Ms. /Mrs. SHRIKANT N. GELEWAR

has successfully completed ELECTRICAL CAL CAD

from 18-01-2016 to 18-02-2016

and has obtained "A" Grade

SMEDIA 50 18

Date: 18-02-2016

E - Excellence (96% - 99%) A - Very Good (76% - 95%) 8 - Sood (61% - 75%) C - Satisfactory (40% 1 80%) M. Baradkar

Jagadarobita College v v tanviteetiing & Technology Arac Poort Sichii Yavutinat C.No. = 2078 =

Date: 2.5 JUN 2016

MAHA GENCO

Maharashtra State Power Generation Co. LTD.

Ceruncate

This is to certify that

Mr. Gaurav Kisan Pawar, has undergone In-Plant Summer Training 2016 at Bhusawal Thermal Power Station, Deepnagar.

From 30th May 2016 to 25th June 2016.

The learning progress during the training has been assessed to be Excellent.

Course Director

BTPS,Deepnagar





Chief Engraeer

Bills Deephad Raveting



Maharashtra State Power Genration Co. Ltd.

Thermal Power Station Paras Dist Akola 444 109 ISO 9001 : 2008 & 14001 : 2004 Certified



This is certify that Mr./Mrs. Prawesh Rajesh Meshram

student of Jagadambha College of Engineering & Technology, Yavatmal

Year / Semister Third Year has undergaon Four Weeks in plant

industrial practical training at TPS Paras, Tq. Balapur Dist: Akola during

summer vacation training from date _____1-Jun-16_ to ____30-Jun-16_

Place: Paras

Date: 30 Jun 2016

College Or Established Total Street Road Name

Chief Engineer
MSPGQL TPS PARAS

Dr. Hemant M. Baradkar Principal Pri



Ref. No. HR/ Training/ 16-17/ 031

Date: July 08, 2016

To whom so ever it may concern

This is to certify that Ms. Aishwarya Gajanan Karnewar student of Final Year B.E (Electrical Engineering) from Jagdambha College of Engineering & Technology, Yavatmal, has satisfactorily completed her summer internship with us, as per following details:

Name of the Department

: Operations & Maintenance (Electrical)

Duration

: 10th June' 2016 to 07th July' 2016

During her internship period we found her sincere.

We wish her all the success in her future endeavor.

For RattanIndia Power Limited

Authorized Signatory

College Or College Or

Dr. Hemant M. Baradkar Frincipal

Jagadambha College of Engineering & Technology, Arni Road, Kinhi, Yavatmal

RattanIndia Power Limited

(Formerly Indiabulls Power Ltd.)

Registered Office: 5th Floor, Tower-B, Worldmark 1, Aerocity, New Delhi - 110037

Tel: +91 11 66612666 Fax: +91 111 66612777

Website: www.rattanindia.com

SIN: L 40102DL2007PLC160082





प्रशिक्षण महानिदेशालय Directorate General of Training कौशल विकास एवं उद्यमिता मंत्रालय Ministry of Skill Development and Entrepreneurship

भारत सरकार

Government of India

CERTIFICATE OF PROFICIENCY

Certified that प्रमाणित किया जाता है

Shri/Smt/Kumari श्री / श्रीमती / कुमारी

SNEHA NARAYAN KHARKAR

Son/Daughter/Wife of Shri सुपुत्र / सुपुत्री / पत्नी श्री NARAYAN KHARKAR

has successfully completed the training programme as per details given below and awarded this certificate/ ने सफलतापूर्वक नीचे दिए गए विवरण के अनुसार प्रशिक्षण प्राप्त किया जिसके तहत इस प्रमाण पत्र से सम्मानित किये जाते है

Name of the course / पाठ्यक्रम क	ा नाम"	"AC ELECTRIC MOTORS-TESTING,		
OPERATION & MAINTENANG	CE"			
Course conducted at / पर पाठ्यक्र	म का आयोजन	ADVANCE	D TRAINING INSTITUTE	
Duration of the course / पाठ्यक्रम	न की अवधि	TWO WEEK	S	
From / से 11.07.2016	Tq	/ तक	22.07.2016	
Deputed / Private / प्रतिविशक्त / f	Def opp	TIATE		

Place/स्थान: MUMBAI

Date/दिनांक: JULY 22, 2016

SAILL DEVELOPMENT &

(ISO 2990 - 2010 CERTIFIED)&

Technology, Ami Road, Kinhi, Yavatmal

DIRECTOR



MAHAGENCO

MANAGETRA STATE POWER GENERATION COMPANY LIMITED

CHANDRAPUR SUPER THERMAL POWER STATION, CHANDRAPUR - 442 404

AN ISO 9001. 14001 & OHSAS 18001 UNIT

Certificate

INDUSTRIAL TRAINING COURSE

This is to certify that,

Mr. / Mrs. / Miss Madhuri Wasudeo Wadekar.

Student from Jagadambha college of Engineering

and Technology, Yavatmal of 7th sem.

Has successfully completed Industrial Training Course at

Chandrapur Super Thermal Power Station,

Chandrapur.

From 15th dec. 2016 to 7th Jan. 2017

This certificate is issued to him / her for successfully completion of Industrial Training with satisfactory performance.

Date: -7 JAN 2017

Place: CSTPS, CHANDRAPUR



Dr.Hemant M. Baradkar Principal

Jagadambha Coilege of Engineering & Technology Ami Road, Kinhi, Yavatmal

CHIEF ENGINEER



Thermal Power Station Paras Dist. Akola 444 109

ISO 9001: 2008 & 14001: 2004 Certified



This is to certify that Mr./Mrs. Hemant V. Chunarkar

Stuffent Of Jagadambha College of Engineering & Technology, Yavatmal

Year/Semister Final Year has successfully undergaon Three Weeks In Plant Industial Practical Training at TPS Paras, Tq. Balapur Dist. Akola during Winter Vacation Training from date 19 Dec. 16 To 07 Jan. 17

During the period of training his/her performance has been found to be very good.

We wish the very best for his/her future endeavors.

Place: Paras

Date: 07 Jan. 2017



Chief Engineer

MSPGCL TPS/PARAS

Dr. Hemant M. Baradkar

Principal

Jagadambha College of Engineering & Tachnology Arni Road, Kinhi, Yavatmal



JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET/16-17/413

Date: 11/11/2016

To.
The HR,
Thermal Power Station,
Paras,

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 19th Dec to 7th Jan 2017. This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

- 1. Suraj Wadhai
- 2. Hemant Chunarkar
- 3. Vaibhay Durkewar

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!



Principal, Joulanthon

Jagadambha Comes at minering & Technology,

Principal

Jagadambha Cellege of Engineering &

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA



COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET/15-16/1068

Date: 23/05/2016

To. The HR. Thermal Power Plant, Paras, Maharashtra

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineering of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 1st Jun to 30th June 2016. This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

- 1. Prawesh Meshram
- 2. Sumit Dikundwar

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

Jagadambha College of Engineering & Technology,

Jagadambha Callaga of Engineering &

Technology Arni Road, Klani, Yavetm

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA



JAGADANEHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET 11-16/1150

Date: 18/05/2016

To,
The HR,
Rattan India Power Plant,
NandgaonPeth,
Amravati

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 10th Jun to 07th July 2016. This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

- Aishwarya Karnewar
- 2. Pratidnya Meshram
- 3. Sonali Dhoke

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

College Or College Or

Jagadambha Contagen Conjugering & Technology,

Dr.Hemant M. Baradka

Jagadembha Cellaga of Engineering &

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDÍA



JAGADANEHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET /15-16/1120

Date: 02/06/2016

To,
The HR,
Rattan India Power Plant,
Nandgaonpeth
Amrayati, Maharashtra

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 10thjun to 7thjuly 2016. This training will helpthemto pursue and learn the practical aspects of theory-learnt in the classroom.

Following is the list of interested candidates.

- 1. Akash Parekar
- 2. Savali Urkude
- 3. Adarsh Gawai
- 4. Kancha Khasale
- 5. Ankita Giratkar

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

ESTD COLORD COLO

Jagadambha Correge of Engineering & Technology,

Journal of the State of Surginaming & Sovietelary, And Read, Street, Yev arms

Dr. Hemant M. Baradka

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIAlagadambha Cellage of Eaginearing & Tel: (07232) 244226, Fax: (07232) 244226 Mob. 9096548670 gy Artii Road, Kinki, Yavatm -

Website: www.jcoet.org E-mail: principal@jcoet.org

62



JAGADANSHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET / 15-16 1374

Date: 10/06/2016

To,
The HR,
Prointegra It Solution Limited,
Nagpur

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal is interested to undertake an Industrial Training at your prestigious organization from 13thjun to 16thjuly 2016. This training will helpherto pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidate.

1. Shirin Sheikh

Hence, we humbly request you to permit her to undergo the Industrial Training.

Thanking you!

Principal, 10.6.16

Jagadambha College of Engineering & Technology,

Implemental College of Engineering & Trajunting Angl Read Minks, Yavatina

College of September 2009

Dr.Hemant M. Baradkar Principal

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA "echnology Arni Road, Klaisi, Yavatm Tel : (07232) 244226, Fax : (07232) 244226 Mob. 9096548670

Website: www.jcoet.org E-mail: principal@jcoet.org



JAGADAMEHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

Date: 01/07/2016

To,
The Head,
Advance Training Institute,
Mumbai

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 11th July to 22nd July 2016. This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

- 1. Ankit Titirmare
- 2. Sneha Kharkar
- 3. Pallavi Dambhare

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!



Principal, Delaumor Jagadambha College of Engineering & Technology.

Japaneriahre College of Engineering & Testratelegy, Arri Read Mintel Yavarrel

Or.Hemant III. Baraukai Principal

Technology Aral Road, Kinhi, Yavatm

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA Techn Tel: (07232) 244226, Fax: (07232) 244226 Mob. 9096548670 Website: www.jcoet.org E-mail: principal@jcoet.org

64



COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET-16-17/420

Date: 15/11/2016

To. The D.C. MSRTC. Yavatmal

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Mechanical Engineering of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 22nd Dec to 24th Dec 2016. This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

- 1. Manmohan Ingole
- 2. Jitendra Payghan
- 3. Ramkrushna Denghale

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!



Jagadambha Q

Dr.Hemar

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA Jagadambha C Tel: (07232) 244226, Fax: (07232) 244226 Mob. 9096548670 Anni Road, Kiniil, Yavatm

Website: www.jcoet.org E-mail: principal@jcoet.org



JAGADANBIA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCet 16-17/278

Date: 06/12/2016

To,
The HR,
Thermal Power Station,
Chandrapur

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineering of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 15th Dec to 7th Jan 2017. This training will helpthem to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

- 1. Madhuri Wadekar
- 2. ShreyaJunankar
- 3. Rupesh Datey

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!



Principal Adam —

Jagadambha Çollegeon Engineering & Technology,

Dr.Hemant M. Baradkar Principal

ni Rozd. Kinni,Yayatm

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDYA ambita