Marathwada Mitramandal's



S.No.18, Plot No.5/3, Karvenagar, Pune-411 052

Accredited with 'A' Grade by NAAC

Accredited by NBA (Electrical and Mechanical Engg. Department)
Recipient of 'Best College Award 2019' of SPPU

Recognized under section 2(f) and 12B of UGC Act 1956

Criterion 2

2.5: Evaluation Process and Reforms

'येथे बहुतांचे हित ।'

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Internal and External Assessment	
Parameter	Page No.
1. <u>University Practical-Oral Time Table</u>	2
2. <u>University Question Paper and Solution</u>	35
3. <u>University Theory Examination Time Table</u>	63
4. <u>Unit Test Question paper, Model Answers, Attendance and Result</u>	69
5. Practical Continuous Assessment Sheet	106
6. MOCK Practical-Oral Time Table	150
7. <u>Assignment</u>	152
8. <u>Seminar-Project Review Sheet</u>	235





Marathwada Mitramandal's

COLLEGE OF ENGINEERING

S.No.18, Plot No.5/3, Karvenagar, Pune-411 052

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External Assessment

University Practical/ Oral Time Table

MARATHWADA MITRA MANDAL'S COLLEGE OF ENGINEERING, PUNE -52 Department of Computer Engineering

Practical / Oral Examination Time Table Oct-2018 (SEM I)

CLASS: SE (2015 Course)

Date: 20-10-2018

Sr. No	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Lab Name
				9.00 AM to 12.00 PM	S150454201 To S150454212	506 C
			22-10-2018	1.00 PM TO 4.00 PM	S150454213 To S150454224	506 C
			Monday	9.00 AM to 12.00 PM	S150454225 To S150454236	506 D
				1.00 PM TO 4.00 PM	S150454237 To S150454248	506 D
				9.00 AM to 12.00 PM	S150454249 to S150454260	506 C
			23-10-2018	1.00 PM TO 4.00 PM	S150454261 to S150454272	506 C
1	Object Oriented	Practical		9.00 AM to 12.00 PM	S150454273 to S150454284	506 D
-	Programming Lab			1.00 PM TO 4.00 PM	S150454285 to S150454296	506D
	(OOPL)		24-10-2018	9.00 AM to 12.00 PM	S150454297 to S150454308	506 C
				1.00 PM TO 4.00 PM	S150454309 to S150454320	506 C
				9.00 AM to 12.00 PM	S150454321 to S150454332	506 D
				1.00 PM TO 4.00 PM	S150454333 to S150454344	506 D
				1.00 PM TO 4.00 PM	\$150454345,349,350,361,362,413,416, 418,420,428	506 A
				9.00 AM to 12.00 PM	S150454201 To S150454212	511 A
			25-10-2018	1.00 PM TO 4.00 PM	S150454213 To S150454224	511 A
			Thursday	9.00 AM to 12.00 PM	S150454225 To S150454236	511 E
				1.00 PM TO 4.00 PM	S150454237 To S150454248	5118
				9.00 AM to 12.00 PM	S150454249 to S150454260	511 /
			26-10-2018	1.00 PM TO 4.00 PM	S150454261 to S150454272	511 /
2	Digital Electronics Lab	Practical	Friday	9.00 AM to 12.00 PM	S150454273 to S150454284	511 8
2	(DEL)	Fractical		1.00 PM TO 4.00 PM	S150454285 to S150454296	5118
	(522)			9.00 AM to 12.00 PM	S150454297 to S150454308	511 4
				1.00 PM TO 4.00 PM	S150454309 to S150454320	511 /
			27-10-2018	9.00 AM to 12.00 PM	S150454321 to S150454332	511 8
			Saturday	1.00 PM TO 4.00 PM	S150454333 to S150454344	5118
				1.00 PM TO 4.00 PM	S150454345,S150454355,356, 362,416,418,426	501

/	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Lab Name
				9.00 AM to 12.00 PM	S150454201 To S150454212	506 C
			29-10-2018	1.00 PM TO 4.00 PM	S150454213 To S150454224	506 C
			Monday	9.00 AM to 12.00 PM	S150454225 To S150454236	506 D
				1.00 PM TO 4.00 PM	S150454237 To S150454248	506 D
				9.00 AM to 12.00 PM	S150454249 to S150454260	506 C
3	5	Practical	30-10-2018	1.00 PM TO 4.00 PM	S150454261 to S150454272	506 C
3	Data Structures Lab (DSL)	Practical	Tuesday	9.00 AM to 12.00 PM	S150454273 to S150454284	506 D
	(DSL)			1.00 PM TO 4.00 PM	S150454285 to S150454296	506D
			Wednesday	9.00 AM to 12.00 PM	S150454297 to S150454308	506 C
				1.00 PM TO 4.00 PM	S150454309 to S150454320	506 C
				3.00 AW 10 12.00 PW	S150454321 to S150454332	506 D
				1.00 PM TO 4.00 PM	S150454333 to S150454344	506 D
				12.00 PM TO 3.00 PM	S150454345, 355.356.361.362,407,420	506 A
	Advanced Data			9.00 AM to 12.00 PM	S150454347, S150454353 to S150454356, S150454359, S150454361 To S150454364, S150454383, S150454384,	506 C
4	Structures Lab (ADSL)		29-10-2018 Monday	1.00 PM TO 4.00 PM	S150454391, S150454397, S150454401, S1504543402, S150454409, S150454313, S150454314, S150454416, S150454418, S150454420, S150454428, S150454329, S150454435	506 D
5	Computer Graphics Lab (CGL)	Practical	22-10-2018 Monday	9.00 AM to 12.00 PM	\$150454356, \$150454361, \$150454362 \$150454396, \$150454397, \$150454401 \$150454416, \$150454418, \$150454420 \$150454426, \$150454428, \$150454429,\$150454435	504

1	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Lab Name
				9.00 AM to 12.00 PM	S150454346, S150454348 to S150454351, S150454355, S150454356, S150454361, S150454362, S150454365, S150454368, S150454369	506 C
6	Microprocessor Lab	Described.	24-10-2018	9.00 AM to 12.00 PM	S150454370, S150454372, S150454373, S150454375, S150454377, S150454378, S150454380 To S150454384, S150454393	506 D
	(MPL)	Practical	Wednesday		S150454394 To S150454402, S150454406, S150454408, S150454409	506 A
				1.00 PM TO 4.00 PM	S150454411, S150454413 to S150454416, S150454418 to S150454420, S15045422, S150454426, S150454428	506 D
				1.00 PM TO 4.00 PM	S150454429, S150454431, S150454432, S150454435, S150454400, S150454441	506C

Note:

Practical Exam Co-ordinator

H.O.D

^{1]} All the candidates should remain present along with journal 1:00 hour before start of the Examination.

^{2]} Uniform is Compulsory.

^{3]} Students should carry I-card, Hall ticket, calculator, pencil etc with them. Exchange of any material is not allowed.



Department of Computer Engineering Practical / Oral Examination Time Table Oct-2018 (SEM I)

CLASS: TE (2015 Course)

Date :20-10-2018

Sr.	Subject				Date :20-10	-2018
No	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Laboratory Name
				8.00 AM to 11.00 AM	T150454201 To T150454212	506C
				8.00 AM to 11.00 AM	T150454213 To T150454224	506D
			25-10-2018	11:30 AM To 2:30 PM	T150454225 To T150454236	506 C
			Thursday	11:30 AM To 2:30 PM	T150454237 To T150454248	506D
				3:00 PM To 6:00 PM	T150454249 To T150454260	506 C
	Database Management			3:00 PM To 6:00 PM	T150454261 To T150454272	506 D
1	Systems Lab	Practical		8.00 AM to 11.00 AM	T120454273 To T120454284	506C
	(DBMS)			8.00 AM to 11.00 AM	T150454285 To T150454296	506D
			26 10 2019	11:30 AM To 2:30 PM	T150454297 To T150454308	506 C
			26-10-2018 Friday	11:30 AM To 2:30 PM	T150454309To T150454320	506D
				3:00 PM To 6:00 PM	T150454321 To T150454332	506 C
				3:00 PM To 6:00 PM	T150454233 To T150454344	506 D
				3:00 PM To 6:00 PM	T150454345, T150454347	506 A
			1-11-2018	8.00 AM to 11.00 AM	T150454201 To T150454212	511
				11:30 AM To 2:30 PM	T150454213 To T150454224	504
			Thursday	8.00 AM to 11.00 AM	T150454225 To T150454236	511
			Tituisday	11:30 AM To 2:30 PM	T150454237 To T150454248	504
				3:00 PM To 6:00 PM	T150454249 To T150454260	505
	Computer Network Lab			8.00 AM to 11.00 AM	T150454261 To T150454272	504
2	(CNL)	Practical	2-11-2018	11:30 AM To 2:30 PM	T120454273 To T120454284	511
	(0.12)		Friday	8.00 AM to 11.00 AM	T150454285 To T150454296	504
				11:30 AM To 2:30 PM	T150454297 To T150454308	511
				8.00 AM to 11.00 AM	T150454309To T150454320	504
			3-11-2018	11:30 AM To 2:30 PM	T150454321 To T150454332	511
			Saturday	3:00 PM To 6:00 PM	T150454233 To T150454344	504
				8.00 AM to 11.00 AM	T150454345, T150454347	511

				9.00 AM TO 12.00 PM	T15045420 T150454220	504
			22-10-2018	9.00 AM TO 12.00 PM	T150454221 10 T150454240	505
3 Skills Development Lab (SDL)		Monday	1.00 PM TO 4.00 PM	T150454241 To T150454260	504	
	Oral		1.00 PM TO 4.00 PM	T150454261 To T150454280	505	
	Olai		9.00 AM TO 12.00 PM	T150454281 To T150454300	504	
			23-10-2018	9.00 AM TO 12.00 PM	T150454301 To T150454320	505
			Tuesday	1.00 PM TO 4.00 PM	T150454321 To T150454340	504
_				1.00 PM TO 4.00 PM	T150454341 To T150454347	505
	SP & OS LAB	Practical	22-10-2018 Monday	10.00 AM TO 1.00 PM	T150454346 to T150454349, T150454352, T150454358, T150454359, T150454363, T150454364, T150454367, T150454370 to T150454372, T150454380	501
	Web Technology Lab	Practical	23-10-2018 Tuesday	9.00 AM TO 12.00 PM	T150454352, T150454367, T150454370, T150454371	506B

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Practical Exam Co-ordinator

H.O.D

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MARATHWADA MITRA MANDAL'S COLLEGE F ENGINEERING, PUNE -52

Department of Computer Engineering

Practical / Oral Examination Time Table Oct-2018 (SEM I)

CLASS :B.E (2015 Course)

Date:20-10-2018

Sr. No	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Laboratory Name
				9:00 AM TO 12:00 PM	B150454201 To B150454212	504
			29-10-2018	9:00 AM TO 12:00 PM	B150454213 To B150454224	511
	LP-I		Monday	1:00 PM TO 4:00 PM	B150454225 To B150454236	504
			/··	1:00 PM TO 4:00 PM	B150454237 to B150454248	511
				9:00 AM TO 12:00 PM	B150454249 To B150454260	504
1		Practical, TW	30-10-2018	9:00 AM TO 12:00 PM	B150454261 To B150454272	511
		Tractically 1	Tuesday	1:00 PM TO 4:00 PM	B150454273 To B150454284	504
				1:00 PM TO 4:00 PM	B150454285 To B150454296	511
			31-10-2018 Wednesday	9:00 AM TO 12:00 PM	B150454297 To B150454308	504
				9:00 AM TO 12:00 PM	B150454309 To B150454320	511
				1:00 PM TO 4:00 PM	B150454321 To B150454332	504
				1:00 PM TO 4:00 PM	B150454333 To B150454343	511
			1-11-2018 Thursday	9:00 AM TO 12:00 PM	B150454201 To B150454215	507
				9:00 AM TO 12:00 PM	B150454216 To B150454230	511
				1:00 PM TO 4:00 PM	B150454231 To B150454245	507
				1:00 PM-TO 4:00 PM	B150454246 To B150454260	511
2	LP-II	Oral, TW		4:00 PM TO 7:00 PM	B150454261 To B150454275	507
_				9:00 AM TO 12:00 PM	B150454276 To B150454290	511
			2-11-2018	9:00 AM TO 12:00 PM	B150454291To B150454305	507
			Friday	1:00 PM TO 4:00 PM	B150454306To B150454320	511
				1:00 PM TO 4:00 PM	B150454321To B150454335	507
				4:00 PM TO 7:00 PM	B150454336To B150454343	511

Practical Exam Co-ordinator

[!] Note: 1] All the candidates should remain present along with journal 1:00 hour before start of the Examination.

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MARATHWADA MITRA MANDAL'S COLDEGE OF ENGINEERING, PUNE -52

Department of Computer Engineering

Practical / Oral Examination Time Table Oct-2018 (SEM I)

CLASS :TE (2012 Course)

Date :20-10-2018

Sr.	0.11			Date :20-10-2018	Date :20-10-2018	
No	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Laboratory Name
1	Prgramming Lab - III	Practical, Oral	26-10-2018 Friday		T120454202, T120454203, T120454204, T120454208, T120454211	505

Note 1] All the candidates should remain present along with journal 1:00 hour before start of the Examination.

2] Uniform is Compulsory.

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Practical Exam Co-ordinator

H.O.D

MARATHWADA MITRA MANDAL'S

COLLEGE ENGINEERING, PUNE -52

Department of Computer Engineering

Practical / Oral Examination Time Table Oct-2018 (SEM I)

CLASS :B.E (2012 Course)

Date:20-10-2018

-					•	
Sr. No	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Laboratory Name
1	Computer Laboratory-II	Oral, TW	22-10-2018 Monday	8:00 AM TO 11:00 AM	B120454201	505
2	Computer Laboratory-III	Practical, TW	25-10-2018 Thursday	11:00 AM TO 2:00 PM	B120454201	505
3	Computer Laboratory-IV	Oral, TW	23-10-2018 Tuesday	8:00 AM TO 11:00 AM	B120454201	505

Note

1] All the candidates should remain present along with journal 1:00 hour before start of the Examination.

2] Uniform is Compulsory.

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Practical Exam Co-ordinator

H.O.D

MARATHWADA MITRA MANDAL'S COLLEGE OF ENGINEERING, PUNE -52

Department of Computer Engineering Practical / Oral Examination Time Table April 2019 (Sem II) CLASS: SE (2015 Course) Date: 10:04-2

Date: 10-04-2019

			CLASS: SE (2015 Course)	Date: 10-04-2019 ·				
Sr. No	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Lab Name		
				8.30 AM to 11.30 AM	S150454201 To S150454212	506 A		
				8.30 AM to 11.30 AM	S150454213 To S150454224	506 B		
			12-04-19	12.00 PM TO 3.00 PM	S150454225 To S150454236	506 A		
			Friday	12.00 PM TO 3.00 PM	S150454237 To S150454248	506 B		
				3.00 PM to 6.00 PM	S150454249 To S150454260	506 A		
				3.00 PM to 6.00 PM	S150454261 To S150454272	506 B		
4	Computer Graphics Lab	Practical	13-04-19	8.30 AM to 11.30 AM	S150454273 To S150454284	506 A		
	(CGL)	Practical	Saturday	8.30 AM to 11.30 AM	S150454285 To S150454296	506 B		
				12.00 PM TO 3.00 PM	S150454297 To S150454308	506 A		
				12.00 PM TO 3.00 PM	S150454309 To S150454320	506 B		
				3.00 PM to 6.00 PM	S150454321 To S150454332	506 A		
				3.00 PM to 6,00 PM	S150454333 To S150454345	506 B		
				1.00 PM to 4.00 PM	S150454361,S150454362, S150454396, S150454418	506 C		
					15-04-19	9.00 AM to 12.00 PM	S150454201 To S150454212	506 A
						Monday	9.00 AM to 12.00 PM	S150454213 To S150454224
				12.30 AM TO 3.30 PM	S150454225 To S150454236	506 A		
				12.30 AM TO 3.30 PM	S150454237 To S150454248	506 B		
			16-04-19	9.00 AM to 12.00 PM	S150454249 To S150454260	506 A		
			Tuesday	9.00 AM to 12.00 PM	S150454261 To S150454272	506 B		
	Microprocessor Lab			12.30 AM TO 3.30 PM	S150454273 To S150454284	506 A		
2	(MPL)	Practical		12.30 AM TO 3.30 PM	S150454285 To S150454296	506 B		
	, , , , , , , , , , , , , , , , , , , ,			9.00 AM to 12.00 PM	S150454297 To S150454308	506 A		
				9.00 AM to 12.00 PM	S150454309 To S150454320	506 B		
			17-04-19	12.30 AM TO 3.30 PM	S150454321 To S150454332	506 A		
			440-4	12.30 AM TO 3.30 PM	S150454333:To S150454345	506 B		
			Wednesday	12.00 AM TO 3.00 PM	\$150454348,349,350,355,361, 362,394,396,399,400,401,409,411 ,413,416,418,426,428,432,440	506 C		

Sneetz

Subject	Exam Head	Date - Day	riming	Exam Seat 40.	Lab Nam		
			8.30 AM to 11.30 AM	S150454201 To S150454212	506 A		
			8.30 AM to 11.30 AM	S150454213 To S150454224 *	506 B		
		19-04-19	12.00 PM TO 3.00 PM	S150454225 To S150454236	506 A		
		Friday	12.00 PM TO 3.00 PM	S150454237 To S150454248	506 B		
			3.00 PM to 6.00 PM	S150454249 To S150454260	506 A		
			3.00 PM to 6.00 PM	S150454261 To S150454272	506 B		
Advanced Date			8.30 AM to 11.30 AM	S150454273 To S150454284	506 A		
Advanced Data Structures Lab (ADSL)	Practical		8.30 AM to 11.30 AM	S150454285 To S150454296	506 B		
	5 mg		12.00 PM TO 3.00 PM	S150454297 To S150454308	506 A		
			12.00 PM TO 3.00 PM	S150454309 To S150454320	506 B		
		22-04-19 Monday	3.00 PM to 6.00 PM	S150454321 To S150454332 *	506 A		
			3.00 PM to 6.00 PM	S150454333 To S150454345	506 B		
			3.00 PM to 6.00 PM	\$150454355, \$150454361,\$150454362, \$150454401, \$150454413,\$150454416, \$150454418, \$150454426,\$150454428	506 C		
					10.00 am to 1.00 pm	\$150454205, 214,219, 229, 238, 248, 250,270,271,273, 282, 283,	506 A
Data Structure Lab (DSL)	Practical	22-04-19 Monday	11.00 AM TO 2.00 PM	\$150454288, 291, 297,299, 304, 307, 309, 311, 316, 317, 326,	506 B		
(555)		Monday	12.00 PM TO 3.00 PM	\$150454327, 333, 343, 355, 361, 362, 407	506 A		
Object Oriented Programming (OOPL)	Prosting	24-04-19	9.00 AM to 12.00 PM	S150454205,229, 238, 239, 247, 248, 249, 250, 280, 299, 309, 316,	506 C		
	Practical	Practical Wednesday	12.00 PM TO 3.00 PM	S150454326, 333, 339, 361, 362, 396, 413, 418, 428	506 C		
Digital Electronics Lab(DEL)	Practical	25-04-19	10.00 am to 1.00 pm	S150454226, 227,229,247,249,280,282,283,291,299,316,341,	511		
	· · cacarden	Thursday	1.00 PM to 4.00 PM	S150454362,416,418,426			

te: 1] All the candidates should remain present along with journal 1:00 hour before start of the Examination. Justom is Compulsory.

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Practical Exam Co-ordinator Department of Computer Engineering

Department of Computer Engineering

MMCOE/academic/UE/Comp/File No.17/2018-19

1.00 PM to 4.00 PM



MARATHWADA MITRA MANDAL' COLLEGE OF ENGINEERING, PUNE -52

Department of Computer Engineering

Practical / Oral Examination Time Table April 2019(SEM II)

No	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Lab Name
				9.00 AM TO 12.00 PM	T150454201 To T150454212	504
			19-04-19	9.00 AM TO 12.00 PM	T150454213 To T150454225	511
			Friday	1.00 PM TO 4:00 PM	T150454226 To T150454237	504
				1.00 PM TO 4:00 PM	T150454238 To T150454249	511
				9.00 AM TO 12.00 PM	T150454250 To T150454262	504
1	Web Technology Lab	Practical	20.04.100-4	9.00 AM TO 12.00 PM	T150454264 To T150454275	511
			20-04-19Saturday	1.00 PM TO 4:00 PM	T150454276 To T150454287	504
				1.00 PM TO 4:00 PM	T150454288 To T150454300	511
				9.00 AM TO 12.00 PM	T150454314 To T150454326	504
			22-04-19 Monday	9.00 AM TO 12.00 PM	T150454327 To T150454339	511
	15.42		Worlday	1.00 PM TO 4:00 PM	T150454340 To T150454345	504
				8.30 AM to 11.30 AM	T150454201 To T150454212	506 C
				8.30 AM to 11.30 AM	T150454213 To T150454225	506 D
			15-04-19	12.00 PM TO 3.00 PM	T150454226 To T150454237	506 A
			Monday	12.00 PM TO 3.00 PM	T150454238 To T150454249	506 B
				3.00 PM to 6.00 PM	T150454250 To T150454262	506 C
2	SP & OS Lab	Practical		3.00 PM to 6.00 PM	T150454264 To T150454275	506 D
				8.30 AM to 11.30 AM	T150454276 To T150454287	506 C
				8.30 AM to 11.30 AM	T150454288 To T150454300	506 D
			16-04-19Tuesday	12.00 PM TO 3.00 PM	T150454314 To T150454326	506 A
				12.00 PM TO 3.00 PM	T150454327 To T150454339	506 B
				3.00 PM to 6.00 PM	T150454340 To T150454347	506 C
3	Database Management Systems Lab	Practical	12-04-1 9 Friday	12:00 PM TO 3.00 PM	T150454250, T150454279, T150454287, T150454347	506 D
4	Computer Network Lab (CNL)	Practical	24/04/19	10.00 AM to 01.00 PM	T150454210, 213,230,250,260,262, 279,287,298,328,337,347	511
5	Skills Development Lab (SDL)	Oral	13/04/19	01:00 PM to 04:00 PM	T150454253, 287,328,347	505

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2] Uniform is Compulsory. 3] Students should carry I-card, Hall ticket, calculator, pencil etc with them. Exchange of any material is not allowed.

Practical Exam Co-ordinator Pr





Department of Computer Engineering Practical / Oral Examination Time Table April 2019(SEM II)

CLASS :TE (2012 Course)

Date: 10-04-2019

ir. No	Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Laboratory Name
1	Prgramming Lab - III	Practical, Oral	12-04-19 Friday	10:00 AM To 1:00 PM	T120454202, T120454204	504

Note 1] All the candidates should remain present along with journal 1:00 hour before start of the Examination.

2] Uniform is Compulsory.

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Practical Exam Co-ordinator Department of Computer Engineering

MMCOE/academic/UE/Comp/File No.17/2018-19



Department of Computer Engineering Practical / Oral Examination Time Table April 2019 (SEM-II)

		CLASS: BE (2015 C	ourse)	Date: 10-04-2019		
Subject	Exam Head	Date - Day	Timing	Exam Seat No.	Laboratory Name	
			9.30 AM to 12.30 PM	B150454201 To B150454212	504	
				B150454213 To B150454225	511	
			9.30 AM to 12.30 PM	B150454226 To B1504542237	504	
		15-04-19	12.30 PM TO 3.30 PM	B150454228 To B150454249	511	
		Monday	12.30 PM TO 3.30 PM	B150454250 To B150454262	504	
			3.00 PM TO 6.00 PM	B150454263 To B150454275	511	
aboratory	Practical / TW		3.00 PM TO 6.00 PM	B150454276 To B150454279	504	
ractice III	Truckien, 1	16-04-19	9.30 AM to 12.30 PM	B150454276 TO B150454203	511	
		Tuesday	9.30 AM to 12.30 PM	B150454290 TO B150454301 B150454302 To B150454313	504	
			12.30 PM TO 3.30 PM	B150454302 10 B150454313	511	
			12.30 PM TO 3.30 PM	B150454314 To B150454327	504	
			3.00 PM TO 6.00 PM	B150454328 To B150454339	511	
			3.00 PM TO 6.00 PM	B150454340 TO B150454343	501	
	Oral / TW	19-04-19 Friday	9.30 AM to 12.30 PM	B150454201 To B150454212	502	
			9.30 AM to 12.30 PM	B150454213 To B150454225 B150454226 To B1504542237	501	
			12.30 PM TO 3.30 PM		502	
			12.30 PM TO 3.30 PM	B150454238 To B150454249	501	
			1.00 AM TO 4.00 PM	B150454250 To B150454262	502	
aboratory			1.00 AM TO 4.00 PM	B150454263 To B150454275	501	
Practice IV			9.30 AM to 12.30 PM	B150454276 To B150454289	502	
			9.30 AM to 12.30 PM	B150454290 To B150454301	502	
		20/04/2019	12.30 PM TO 3.30 PM	B150454302 To B150454313		
		Saturday	12.30 PM TO 3.30 PM	B150454314 To B150454327	502	
			1.00 AM TO 4.00 PM	B150454328 To B150454339	501	
			1.00 AM TO 4.00 PM	B150454340 TO B150454343	502	
aboratory ractice I	Practical/ TW	17-04-19 Wednesday	10.00 AM to 1.00 PM	B150454329, B150454335, B150454336, B150454338,	504	
aboratory ractice II	Oral / TW	22-04-19 Monday	10.00 AM to 1.00 PM	B150454329, B150454335, B150454336, B150454338,	511	

niform is Compulsory. 3] Students should carry I-card/Hall ticket, calculator, pencil etc with them. Exchange of any material is not allowed.

Practical Exam Co-ordinator Department of Computer Engineering

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Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

Karvenagar, Pune-52 Schedule for Oral/Practical Exam S. E. Electrical (2015 Pat.)

1) Electrical Measurements and Instrumentation (PR) [50 M]

D-1-	Time	Roll No.
Date		S150452501-S150452513
22/12/2018		S150452514-S150452524
22/10/2018	10:30 am to 12.30pm	S150452525-S150452536
	12:00 pm to 2:00pm	\$150452537-\$150452548
	1:30 piii to 3:30piii	S150452549-S150452560
		S150452561-S150452572
23/10/2018	10:30 am to 12:30pm	S150452573-S150452577
	12:00 pm to 2:00pm	All backlog students
1	1:30 pm to 3:30pm	
	Date 22/10/2018 23/10/2018	22/10/2018 09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm 1:30 pm to 3:30pm 09:00 am to 11:00 am 10:30 am to 12:30pm 10:30 am to 12:30pm 12:00 pm to 2:00pm 1:30 pm to 3:30pm

2) Analog and Digital Electronics (PR) [50 M]

Sr. No.	Date 24/10/2018	Time 09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm 1:30 pm to 3:30pm	Roll No. \$150452501-\$150452513 \$150452514-\$150452524 \$150452525-\$150452536 \$150452537-\$150452548 \$150452549-\$150452560
02	25/10/2018	09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm 1:30 pm to 3:30pm	\$150452549-\$130452500 \$150452561-\$150452572 \$150452573-\$150452577 All backlog students

3) Material Science (OR) [50 M]

		T	Roll No.
Sr. No.	Date	Time	\$150452501-\$150452520
01	26/10/2018	09:00 am to 12:00pm	\$150452521-\$150452540
		12:00 pm to 3:00pm	\$150452541-\$150452560
02	27/10/2018	09:00 am to 12:00pm	\$150452541-\$150452577
		12:00 pm to 3:00pm	\$130432301-\$130432377

4) Fundamentals of Microcontroller and Applications (OR) [50 M]

Sr. No.	-		
51. 140.	Date	Time	Exam Seat No.
0.1	25/10/2015	Time	502 500 (00 617
UI	25/10/2018	09:00 am to 11:00 am	\$150452581,592,593,598,600,617

5) Electrical Machines- I (PR) [50 M]

Sr. No.	Date	Time	Exam Seat No.
01	26/10/2018	09:00 am to 11:00 am	\$150452578,585,592,593,594,598,600
	20/10/2010		,618,620

6) Numerical Methods and Computer Programming (PR) [50 M]

			Exam Seat No.
Sr. No.	Date	Time	Exam Sea 502 504 508 607
0.1	26/10/2019	09:00 am to 11:00 am	\$150452578,580,592,593,594,598,607
01	26/10/2018	09.00 am to 11.00 am	.610
			,

Ms. K. S.Sagar

Practical/ Oral Exam Coordinator

Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

Karvenagar, Pune-52 Schedule for Oral/Practical Exam

T. E. Electrical (2015 Pat.)

1) Advance Microcontroller & Its Application (OR) [50 M]

Sr. No.	Date	Time	Exam Seat No.
01	22/10/2018	09:00 am to 12:30 pm	T150452501-T150452520
		12:30 pm to 3:30 pm	T150452521-T150452540
02	23/10/2018	09:00 am to 12:30 pm	T150452541-T150452560
		12:30 pm to 3:30 pm	T150452561-T150452562

2) Electrical Machines II (PR) [50 M]

Sr. No.	Date	Time	Exam Seat No.
01	24/10/2018	09:00 am to 11:00 am	T150452501-T150452512
		10:30 am to 12:30pm	T150452513-T150452524
		12:00 pm to 2:00pm	T150452525-T150452536
		1:30 pm to 3:30pm	T150452537-T150452548
02	25/10/2018	09:00 am to 11:00 am	T150452549-T150452560
	,	10:30 am to 12:30pm	T150452561-T150452562
		12:00 pm to 2:00pm	
		1:30 pm to 3:30pm	All backlog students

3) Power Electronics (PR) [50 M]

Sr. No.	Date	Time	Exam Seat No.
01	26/10/2018	09:00 am to 11:00 am	T150452501-T150452512
		10:30 am to 12:30pm	T150452513-T150452524
		12:00 pm to 2:00pm	T150452525-T150452536
		1:30 pm to 3:30pm	T150452537-T150452548
02	27/10/2018	09:00 am to 11:00 am	T150452549-T150452560
02	2,,,,0,2010	10:30 am to 12:30pm	T150452561-T150452562
		12:00 pm to 2:00pm	
		1:30 pm to 3:30pm	All backlog students

4) Power System II (PR) [50 M]

	System II (PK)	30 M)	and the second s
C. M			Exam Seat No.
Sr. No.	Date	Time	T150452568,575,587
01	26/10/2018	09:00 am to 11:00 am	

5) Control System I (OR) [50 M]

S) Conti	ot System I (OK) [.	From Seat NO.
Sr. No.	Date	Time T150452568 570,577,578,586,588,590
01	23/10/2018	09:00 am to 12:00 am

6) Design of Electrical Machines (OR) [50 M]

0)	Desig	n of Electrical Man		Exam Seat No.
Sr.	No.	Date 22/10/2018	Time 09:00 am to 12:00 am	TI 50452563 564.566,574.578,581.364

Ms. K. S. Sagar

Practical/ Oral Exam Coordinator

Marathwada Mitra Mandal's

COLLEGE OF ENGINEERING

Karvenagar, Pune-52

Schedule for Oral/Practical Exam

T. E. Electrical (2012 Pat.)

1) Advance Microcontroller & Its Application (OR) [50 M]

1) Advance Microcontrol	Her & Its Application (OR) [50 M]	Exam Seat No.
Sr. No. Date 01 23/10/2018	Time 09:00 am to 12:30 pm	T120452510

2) Electrical Machines II (PR) [50 M] Exam S	Seat No. 452509
Sr. No. Date Time 01 25/10/2018 09:00 am to 12:30 pm	

3) Control System I (OR) [50 M]	Time	Exam Seat No. T120452506
Sr. No. Date 09:00	Time) am to 12:00 am	

Practical/ Oral Exam Coordinator

Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

Karvenagar, Pune-52 Schedule for Oral/Practical Exam

B. E. Electrical (2015)

1) PLC AND SCADA Applications (PR-50M)

Sr. No.	Date	Time	Exam No.
01	29/10/2018	09:00 am to 10:00 am	B150452508

2) Control System II (OR-25 M)

Sr. No.	Date	Time	Exam No.
01.110.		09:00 am to 10:00 am	B150452508
01	30/10/2018	09.00 ani to 10.00 ani	

3) Power System Operation And Control (OR-25 M)

				Exam No.
1	Sr. No.	Date	Time	
	01	31/10/2018	09:00 am to 10:00 am	B150452508
	UI	51/10/2010		

Ms. K. S. Sagar Practical/ Oral Exam Coordinator

Marathwada Mitra Mandal's

COLLEGE OF ENGINEERING

Karvenagar, Pune-52 Schedule for Oral/Practical Exam

B. E. Electrical (2015/12 Pat.)

1) PLC AND SCADA Applications (PR-50M)

Date	Time	Roll No.
2/10/2018	09:00 am to 11:00 am	B150452501-B150452512
	10:30 am to 12:30pm	B150452513-B150452524
	12:00 pm to 2:00pm	B150452525-B150452536
	1:30 pm to 3:30pm	B150452537-B150452548
3/10/2018	09:00 am to 11:00 am	B150452549-B150452560
	10:30 am to 12:30pm	B150452561-B150452572
	12:00 pm to 2:00pm	B150452573-B150452580
	1:30 pm to 3:30pm	All backlog students
	Date 2/10/2018 3/10/2018	2/10/2018 09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm 1:30 pm to 3:30pm 3/10/2018 09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm

2) Control System II (OR-25 M)

Sr. No.	Date	Time	Roll No.
01	24/10/2018	09:00 am to 12:30 pm	B150452501-B150452520
		12:30 pm to 3:30 pm	B150452521-B150452540
02	25/10/2018	09:00 am to 12:30 pm	B150452541-B150452560
Ŭ 2	25. 15.2010	12:30 pm to 3:30 pm	B150452561-B150452580

3) Power System Operation And Control (OR-25 M)

Sr. No.	Date	Time	Roll No.
01	26/10/2018	09:00 am to 12:30 pm	B150452501-B150452520
01	20 10/2010	12:30 pm to 3:30 pm	B150452521-B150452540
02	23/10/2018	09:00 am to 12:30 pm	B150452541-B150452560
02	29 10/2010	12:30 pm to 3:30 pm	B150452561-B150452580

Ms. K. S. Sagar

Practical/ Oral Exam Coordinator

Dr. V. N. Gohokar

HOD Electrical Engg. Dept.

Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

Karvenagar, Pune-52 Schedule for Oral/Practical Exam S. E. Electrical (2015 Pat.)

1) ELECTRICAL MACHINES I (PR) [50 M]

Sr. No.	Data	Time	Exam Seat No.	
St. No.	Date	09:00 am to 11:00 am	S150452501-S150452514	
		19:00 am to 11:00 am	S150452515-S150452526	
01	20/04/2019	10:30 am to 12:30pm	S150452528-S150452539	
		12:00 pm to 2:00pm	S150452540-S150452552	
		1:30 pm to 3:30pm	S150452553-S150452564	
	22/04/2019		09:00 am to 11:00 am	\$150452565-\$150452598
02		10:30 am to 12:30pm	\$150452363-3150452576	
02		12:00 pm to 2:00pm		
		1:30 pm to 3:30pm	All backlog students	
		1.50 p		

2) NUMERICAL METHODS & COMPUTER PROGRAMMING (PR) [50 M]

2) NON	ERICHE M2		Exam Seat No.
Sr. No.	Date 15/04/2019	Time 09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm	\$150452501-\$150452514 \$150452515-\$150452526 \$150452528-\$150452539 \$150452540-\$150452552
02	16/04/2019	1:30 pm to 3:30pm 09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm 1:30 pm to 3:30pm	\$150452578 S150452564 \$150452565-\$150452598 All backlog students

3) FUNDAMENTAL OF MICROCONTROLLER & ITS APPLICATION (OR) [50 M]

3) FUNDAMENTAL OF T		Exam Seat No.
Sr. No. Date 01 24/04/2019 02 25/04/2019	Time 09:00 am to 12:00pm 12:00 pm to 3:00pm 09:00 am to 12:00pm 12:00 pm to 3:00pm	\$150452501-\$150452522 \$150452523-\$150452544 \$150452545-\$150452564 \$150452565-\$150452598 & backlog students

4) MATERIAL SCIENCE (OR) [50 M]

	- SCIENCE	· (OR) [50 M]	
Sr. No.	Date	Ti'	Exam Seat No.
01		Time	\$150452510,\$150452512,\$150452543
7.	22/04/2019	09:00 am to 11:00 am	\$150452510,\$150452212,

5) ANALOG & DIGITAL ELECTRONICS (PR) [50 M]

	- o o w Digit Al	ELECTRONICS (114)	
Sr. No.	Date 16/04/2019	Time 09:00 am to 11:00 am	Exam Seat No. \$150452510,\$150452512,\$150452543, \$150452561

6) ELECTRICAL MEASUREMENT & INSTRUMENTATION (PR) [50 M]

O) ELE	CINICAL MEAS		Exam Seat No.
Sr. No.	Date 24/04/2019	09:00 am to 11:00 am	50.505 S150452543.S150452548,

Mrs.S.A.Upasani Practical/ Oral Exam Coordinator

Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

Karvenagar, Pune-52 Schedule for Oral/Practical Exam

T. E. Electrical (2015 Pat.)

1) CONTROL SYSTEM I (OR) [50 M]

Sr. No.	Date	Time	Exam Seat No.
01	20/04/2019	09:00 am to 12:30 pm	T150452501-T150452521
	20/04/2017	12:30 pm to 3:30 pm	T150452522-T150452543
02	20/04/2010		T150452544-T150452560
\ 02	22/04/2019	09:00 am to 12:30 pm	All backlog students
		12:30 pm to 3:30 pm	7 till oddini 5

2) DESIGN OF ELECTRICAL MACHINES (OR) [50 M]

Sr. No. 01	Date 15/04/2019 16/04/2019	Time 09:00 am to 12:30 pm 12:30 pm to 3:30 pm 09:00 am to 12:30 pm	Exam Seat No. T150452501-T150452521 T150452522-T150452543 T150452544-T150452560 All backlog students
02	16/04/2019	12:30 pm to 3:30 pm	All backlog students

2) POWER SYSTEM II (PR) [50 M]

Sr. No.	Date	Time	Exam Seat No. T150452501-T150452513
01	24/04/2019	09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm 1:30 pm to 3:30pm	T150452514-T150452527 T150452528-T150452539 T150452540-T150452551 T150452552-T150452560
02	25/04/2019	09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm 1:30 pm to 3:30pm	All backlog students

4) ELECTRICAL MACHINES II (PR) [50 M]

Sr. No.	Date 25/04/2019	Time 09:00 am to 11:00 am	Exam Seat No. T150452502,T150452529,T150452537 ,T150452539,T150452545	\

5) ADVANCED MICROCONTROLLER & ITS APPLICATION (OR) [50 M]

	MCED MICKOC	UNIKULLER & 115 A	
Sr. No.	Date	Time	Exam Seat No. T150452502,T150452509,T150452522,
01	22/04/2019	09:00 am to 12:00 am	T150452502,T150452505,T150452537, T150452528,T150452529,T150452537, T150452539,T150452544,T150452545, T150452547

6) POWER ELECTRONICS (PR) [50 M]

6) POWE	ER ELECTRONI	CS (PR) [50 M]	E Seat No
Sr. No.	Date 15/04/2019	Time 09:00 am to 12:00 am	Exam Seat No. T150452529,T150452539,T150452545

Practical/ Oral Exam Coordinator

Marathwada Mitra Mandal's

COLLEGE OF ENGINEERING

Karvenagar, Pune-52 Schedule for Oral/Practical Exam

B. E. Electrical (2015 Pat.)

1) SWITCHGEAR & PROTECTION (OR)

	Date	Time	Exam Seat No. B150452501-B150452520
Sr. No.	15/04/2019	09:00 am to 12:30 pm 12:30 pm to 3:30 pm	P150452521-B150452540
02	16/04/2019	09:00 am to 12:30 pm 12:30 pm to 3:30 pm	B150452541-B150452560 B150452561-B150452580

2) HIGH VOLTAGE ENGINEERING (OR)

2) HIGH	I VOLTAGE 25		Exam Seat No.
Sr. No.	Date	Time	D150452501-B150452520
01	20/04/2019	09:00 am to 12:30 pm 12:30 pm to 3:30 pm	B150452521-B150452540 B150452541-B150452560
	22/04/2019	09:00 am to 12:30 pm	B150452561-B150452580
02	22/04/2019	12:30 pm to 3:30 pm	B130-1323

3) POWER ELECTRONICS CONTROL & DRIVES (PR)

3) POW	ER ELECTRONI	CB COLVE	Exam Seat No.
Sr. No.	Date 24/04/2019	Time 09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 2:00pm	B150452501-B150452512 B150452513-B150452524 B150452525-B150452536 B150452537-B150452548
02	25/04/2019	1:30 pm to 3:30pm 09:00 am to 11:00 am 10:30 am to 12:30pm 12:00 pm to 3:00pm	B150452549-B150452560 B150452561-B150452572 B150452573-B150452580

4) PLC & SCADA APPLI	CATIONS (PR)	Exam Seat No.
Date	Time 09:00 am to 11:00 am	B150452515,B150452566,B1504525569

5) CONTROL SYSTEM II (OR)

5) CONTRO	02.4		Exam Seat No.
Sr. No.	Date 15/04/2019	Time 09:00 am to 12:30 pm	72.172.565 D150452567 B150452573

6) POWER SYSTEM OPERATION & CONTROL (OR)

Sr. No.	ERATION & CONTROL (OR	2)
01 Date	Time	Exam Seat No.
20/04/2019	09:00 am to 11:00 am	Backlog Students

7) SWITCHGEAR & PROTECTION (OR)

Sr. No.		,	
110.	Date	Time	Exam Seat No.
01	16/04/2019	09:00 am to 11:00 am	Backlog Students

8) HIGH VOLTAGE ENGINEERING (OR)

Carrie			Exam Seat No.
Sr. No.	Date	Time	
01	22/04/2019	09:00 am to 11:00 am	Backlog Students

9) POWER ELECTRONICS CONTROL & DRIVES (PR)

Sr. No.	Date	Time	Exam Seat No.	
01	25/04/2019	09:00 am to 11:00 am	Backlog Students	

-deu

Mrs.S.A.Upasani Practical/ Oral Exam Coordinator



PROFORMA FOR SUPPLYING INFORMATION BY THE PRINCIPAL

FOR S.E. PRACTICAL / ORAL EXAMINATION OF April-May 2019

EXAMINATION: April-May 2019

Name of the College - Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune - 411052.

Branch - S.E. Information Technology 2015 Course

College Code: 045

Sr.no.	Subject no.	Subject	Exam Head	Students Count	Suggested Dates	Internal Examiner
1	214448	Object Oriented programming Lab	PR	11	12/04/2019	Mrs. Shital Kakad
2	214446	Digital Laboratory	PR	4	15/04/2019	Mrs.Rasmi Bhattad
3	214447	Programming Lab.	PR	10	16/04/2019	Mr. Jitendra Chavan
4	214454	Processor Interfacing Laboratory	PR	74	19/04/2019 & 20/04/2019	Mrs.Rasmi Bhattad
5	214455	Data Structure and Files Lab.	PR	74	24/04/2019 & 25/04/2019	Dr. V. S. Bidave
6	214456	Computer Graphics Laboratory	PR	74	27/04/2019 & 28/04/2019	Ms. P.R. Kuche

Mrs. P.S. Joshi Practical Exam Coordinator



Dr. VS Bidave

MMCOE academic UE/11/File No.17/2018-19

SAVITRIBAI PHULE PUNE UNIVERSITY

PROFORMA FOR SUPPLYING INFORMATION BY THE PRINCIPAL FOR T.E. PRACTICAL / ORAL EXAMINATION OF April-May 2019

EXAMINATION: April-May 2019

Name of the College - Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune - 411052.

Branch - T.E. Information Technology (2015) Course

College Code:45

Sr.no.	Subject no.	Subject	Exam Head	No. Of Students	Suggested Dates	Internal Examiner	
1	314447	Software Laboratory - II	PR	4	12/04/2019	Mr. Swapnil Shinde	
2	314446	Software Laboratory - I	OR+PR	3+1	13/04/2019	Mr. Nikhil Dhavase	
3	314455	Software Laboratory – IV	OR	70	15/04/2019 & 16/04/2019	Mrs. P. S. Joshi	
4	314456	Software Laboratory – V	PR	70	19/04/2019 & 20/04/2019	Mrs. Shital Kakad	
5	314458	Seminar	OR	70	22/04/2019	Mrs. P. S. Joshi	
6	314457	Software Laboratory – VI	PR	70	26/04/2019 & 27/04/2019	Mr. Nikhil Dhavase	

Mrs. P.S. Joshi
Practical Exam Coordinator

O OF ENGINE OF IN THE PROPERTY OF INTERPORT OF INTERPORT

Dr. V. S. Bidave

SAVITRIBAI PHULE PUNE UNIVERSITY

PROFORMA FOR SUPPLYING INFORMATION BY THE PRINCIPAL FOR B.E. PRACTICAL / ORAL EXAMINATION OF April-May 2019

EXAMINATION: April-May 2019

Name of the College - Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune - 411052.

Branch - B.E. Information Technology (2015) Course

College Code:45

Sr.no.	Subject no.	Subject	Exam Head	Students Count	Suggested Dates	Internal Examiner
1	414459	Computer Laboratory-VIII	OR	4	13/04/2019	Mr. P. B. Kamble
2	414458	Computer Laboratory-VII	PR	3	15/04/2019	Mrs.Rasmi Bhattad
3	414467	Computer Laboratory-X	TW+OR	71	19/04/2019 & 20/04/2019	Mrs. P. S. Joshi
4	414464	Elective-III	TW+OR	71	22/04/2019	Mr. P. B. Kamble + Ms. P.R. Kuche
5	414466	Computer Laboratory-IX	TW+PR	71	24/04/2019 & 25/04/2019	Mr. Swapnil Shinde

MrsXP.S. Joshi
Practical Exam Coordinator



Dr. V.S. Bidave HOD,IT

SAV RIBAI PHULE PUNE UNIVERSITY

PROFORMA FOR SUPPLYING INFORMATION BY THE PRINCIPAL

FOR S.E. PRACTICAL / ORAL EXAMINATION OF April-May 2019

EXAMINATION: April-May 2019

Name of the College - Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune - 411052.

Branch - S.E. Information Technology 2015 Course

College Code: 045

Sr.no.	Subject no.	Subject	Exam Head	Students Count	Suggested Dates	Internal Examiner
1	214448	Object Oriented programming Lab	PR	11	12/04/2019	Mrs. Shital Kakad
2	214446	Digital Laboratory	PR	4	15/04/2019	Mrs.Rasmi Bhattad
3	214447	Programming Lab.	PR	10	16/04/2019	Mr. Jitendra Chavan
4	214454	Processor Interfacing Laboratory	PR	74	19/04/2019 & 20/04/2019	Mrs.Rasmi Bhattad
5	214455	Data Structure and Files Lab.	PR	74	24/04/2019 & 25/04/2019	Dr. V. S. Bidave
6	214456	Computer Graphics Laboratory	PR	74	27/04/2019 & 28/04/2019	Ms. P.R. Kuche

Mrs. P.S. Joshi Practical Exam Coordinator ege of Energy of the second of

Dr. W.S. Bidave

MMCOE/academic/UE/IT/File No.17/2018-19

SAVITRIBAI PHULE PUNE UNIVERSITY

PROFORMA FOR SUPPLYING INFORMATION BY THE PRINCIPAL FOR T.E. PRACTICAL / ORAL EXAMINATION OF April-May 2019

EXAMINATION: April-May 2019

Name of the College - Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune - 411052.

Branch - T.E. Information Technology (2015) Course

College Code:45

Sr.no.	Subject no.	Subject	Exam Head	No. Of Students	Suggested Dates	Internal Examiner
1	314447	Software Laboratory - II	PR	4	12/04/2019	Mr. Swapnil Shinde
2	314446	Software Laboratory - I	OR+PR	3+1	13/04/2019	Mr. Nikhil Dhavase
3	314455	Software Laboratory – IV	OR	70	15/04/2019 & 16/04/2019	Mrs. P. S. Joshi
4	314456	Software Laboratory – V	PR	70	19/04/2019 & 20/04/2019	Mrs. Shital Kakad
5	314458	Seminar	OR	70	22/04/2019	Mrs. P. S. Joshi
6	314457	Software Laboratory – VI	PR	70	26/04/2019 & 27/04/2019	Mr. Nikhil Dhavase

Mrs. P.S. Joshi Practical Exam Coordinator



Dr. V. S. Bidave HOD IT

SAVITRIBAI PHULE PUNE UNIVERSITY

PROFORMA FOR SUPPLYING INFORMATION BY THE PRINCIPAL FOR B.E. PRACTICAL / ORAL EXAMINATION OF April-May 2019

EXAMINATION: April-May 2019

Name of the College - Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune - 411052.

Branch - B.E. Information Technology (2015) Course

College Code:45

Sr.no.	Subject no.	Subject	Exam Head	Students Count	Suggested Dates	Internal Examiner
1	414459	Computer Laboratory-VIII	OR	4	13/04/2019	Mr. P. B. Kamble
2	414458	Computer Laboratory-VII	PR	3	15/04/2019	Mrs.Rasmi Bhattad
3	414467	Computer Laboratory-X	TW+OR	71	19/04/2019 & 20/04/2019	Mrs. P. S. Joshi
4	414464	Elective-III	TW+OR	71	22/04/2019	Mr. P. B. Kamble + Ms. P.R. Kuche
5	414466	Computer Laboratory-IX	TW+PR	71	24/04/2019 & 25/04/2019	Mr. Swapnil Shinde

Mrs P:S. Joshi
Practical Exam Coordinator

Pure 82 P

Dr. V.S. Bidave HOD,IT



Marathwada Mitramandal's

COLLEGE OF ENGINEERING

S.No.18, Plot No.5/3, Karvenagar, Pune-411 052

Accredited with 'A' Grade by NAAC

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Recipient of 'Best College Award 2019' of SPPU

Recognized under section 2(f) and 12B of UGC Act 1956

External Assessment

University Question Paper and Solution

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SEAT No.:	

[Total No. of Pages: 2

BE/Insem 70ct.-589 B.E. (Computer Engineering)

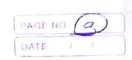
	Computer Engineering)	
	DATA MINING AND WAREHOUSING (2015 Pattern) (Elective - I) (Semester - I)	
	(2015 Pattern) (Elective - I) (Semester - I)	
Time: 1 I		20
Instructio	ons to the candidates: [Max. Marks:	30
1)	Solve Dor On	
2)	Assume suitable data, if necessary.	
3)	Neat aiggrams must be drawn wherever necessary.	
4)	Figure to the right indicate full marks.	
Q1) a)	Suppose that the minimum and maximum values for the attribute income are \$12,000 and \$98,000 respectively. Normalize income value \$73, to the range [0.0, 1.0] using min-max normalization method.	600
b)	Explain various data cleaning techniques.	[4]
c)	What is correlation analysis OR	[2]
02) a)	Explain different methods for aftribute subset selection (any 2).	[4]
	For the given attribute markswalues:	[4]
	25 15 50 55 60.63.75	_ \
	a median median median (
	A 1 - MAINTE HIVE HUBITUUI SUITIUM JULIANO CO COMMINICATION CONTRACTOR CONTRA	15
c)	Also computed the Also compute	55
	From the architectural point of view, explain different data wareh	ouse
Q3) a)	From the architectural point	[4]
	models. Differentiate between ROLAP, MOLAP and HOLAP Differentiate between ROLAP, Explain.	[4]
b)	Differentiate between Resplain. What is Concept Hierarchy? Explain. OR	[2]
c)	What is Concept OR	
	Draw and Explain a data warehouse architecture. Draw and Explain OLAP operations with example.	[4]
04) a)	Draw and Explain a data watchouse distriction. Explain following OLAP operations with example.	[4]
b)	Explain follows	
	i) Drill Up i) Drill Up Time & Dice	
	ii) Slice of and dimension table,	
c)	i) Drift or Slice & Dice ii) Slice & Dice What is fact table and dimension table. What is fact table and dimension table.	

Calculate Euclidean and Manhattan distance between following two objects. $A = \{2, 4, 8, 6,\}, B = \{3, 4, 6, 7\}$ How to compute dissimilarity between categorical variables. Explain with a similar to be a second of the compute of the c suitable example. What is cosine similarity? OR Compute cosine similarity among following documents using term frequency vector O d,: "The sum in the sky is bright" d²: "We can see the shining sun, the bright sun" How to compute dissimilarity between ordinal variables. Explain with suitable example. Explain Data matrix and Dissimilarity matrix. CE 165.25 1010812018 13 CROSS OF STATE OF STA

INSEM-EXAM-MODEL ANSWERSHEET

Subject - Data Mining & Woochousing Class - BE-computer Subject - Teacher - Mrs. S. P. Mone 1. r. - 2018-19 (SEM-I) Q.1)(a) suppose that the minimum of maximum values attribute income are & \$ 12,000 & \$98,000 respectively Normalize income value \$73,600 to [0.0, 1.0], using min-max normalization ANS (new maxy-new ming) + new ming (1.0-0)+0 73600-12000 98000 - 12000 V: =0.716 Q. 1b) Explain vosious data cleaning techniques - It attempt to fill in missing values, smooth out noise, while identifying outliers, inconsistencies in Valuel -It may happen that, in the database value for several atts customer lincome! We can fillowing methods when the This method is not very effective, unless the type contains several attributes with missing values ii) Fill in the missing value manually In general, this approach is time be feasible, given a large data set with

with many missing values. iii) use a global constant to fill in the missing value-Replace all missing attribute values by the same constant such as a label like "unknown" or -00. Many of the tuples will have this "unknown" value so although this method is simple but it is not for Good complete iv) Use a measure of control tendancy for the - This indicate the "middle" value of a data distribution. For normal (symmetric) douba distribution, the mean can be used, while skewed data distribution should employ the median. We can use this value to replace the - For example, if classifying customers accordingly to coedit-risk, we may replace the missing customers in the same credit risk category of that of the given tuple. If the data distribution for a given closs is skewed, the value is a better charice (b) Noisy Data -- Noise is a random error meagured variable. Basic startical description techniques, methods of data visualization co remove the noise. Following are data smoothing techniques -



i) Binning - Binning methods smooth a sorted data value
by consulting its "neighborhood", that is, the value around it. The sorted values are distributed into
around it. The sorted values are distributed into
a number of "buckets" or bins,
- In "smoothing by bin means" method, each value
in a bin is replaced by the mean value of
the bin.
ii) Regression - Data smoothing our also be done
by regression, a technique that confirms data
volues to a function. Linear regression involves
finding the "best" line to fit two attailed
(or ranables) so that one attribute can be
used to product the other.
- othe Multiple linear regression is an extension
of linear regression, where more than two
attributes are involved and the docta are fit
to a multidimensional surface.
Outlier Analysis - outlier may be detected by
clustering, for example, where similar evalues
values that fall outside of the set of clusters. The
values that fall ordered of the sot of clusters
may be considered outliers.
Q.15) What is Correlation Analysis.
Ans)-Redundancy is an important issue in data integration.
-some redundancies can be detected by
correlation analysis. Given two attributes, such
analysis can measure how storagely one attribute implies the other, based on the available data.
implies the other, based on the available data.
(T) Correlation Test for Nominal para
- For nominal dada, a correlation relationship
between two afforbutes, A & B, can be discovered by x2 (chi-square) test.
discovered by a (chi-square) text.

- Suppose A has 'c' distinct values, namely 9,92,-
ac. B has 'r' distinct values, namely by bz, bz,
The data tuples described by A and B can be shown as a contingency table. Let (Ai, Bj) denote the joint event that attribute
shown as a contingency table. Let (A:, B;)
denote the joint event that attaibate
'A' takes an value a; and attribute B takes
on value Bi, that is, where (A=Qi, B=b;).
The x2 value is computed as
,
$\chi^2 = \frac{1}{2} $
$x^2 = \underbrace{\sum_{i=1}^{\infty} \underbrace{(o_{ii} - C_{ii})}^2}_{e_{i}}$
of the joint event (Ai, Bj) and
of the joint event (Ai, Bj) and
eij - Expected frequency of (Ai, Bj) which
can be computed as-
Pi = count (A=a;) x count (B=b;)
where n-number of data tuples.
where n = number of data tuples.
- x2 statistica tests the hypothesis that A &
B are independent, that is, there is no
no correlation between them. If the hypothesis
can be rejected, then we say that A&
B are satisfically correct correlated.
(I) correlation Coefficient for Numeric Data -
- For numeric attributes, we can experiente
the correlation between two afforbutes A & B, by computing the correlation coefficient (also known as peasson's product moment) coefficient)
by computing the correlation wefficient
(also known as peasons product moment) coefficient)
This is,

n-no. of tuples

A &B - men mean values of A & B respectively. GASGB - Standard deviations of A & B respectively = (aibi) - the sum of the AB cross-product.

III) Covariance of Numeric Date-- In probability theory & statistics, correctation of covariance are two similar measures for accessing how much two attributes charge together.

- The covariance between A & B is defined as

COV (A,B) = E ((A-A) (B-B))

(a; -A) (b; -B)

VA,B = cov(A,B)

Q.2 a) Explain different methods for attribute subset selection. (any 2)

Avs) - Attribute subset selection is corried and by greaty method. This leads the local optimal choice

- This selection is good or not that depends upon the dependency of the authorities on each ofher. Greedy methods of attribute subset are as follows

(2) Stepwise forward selection

(B) Stepuise backwood climination

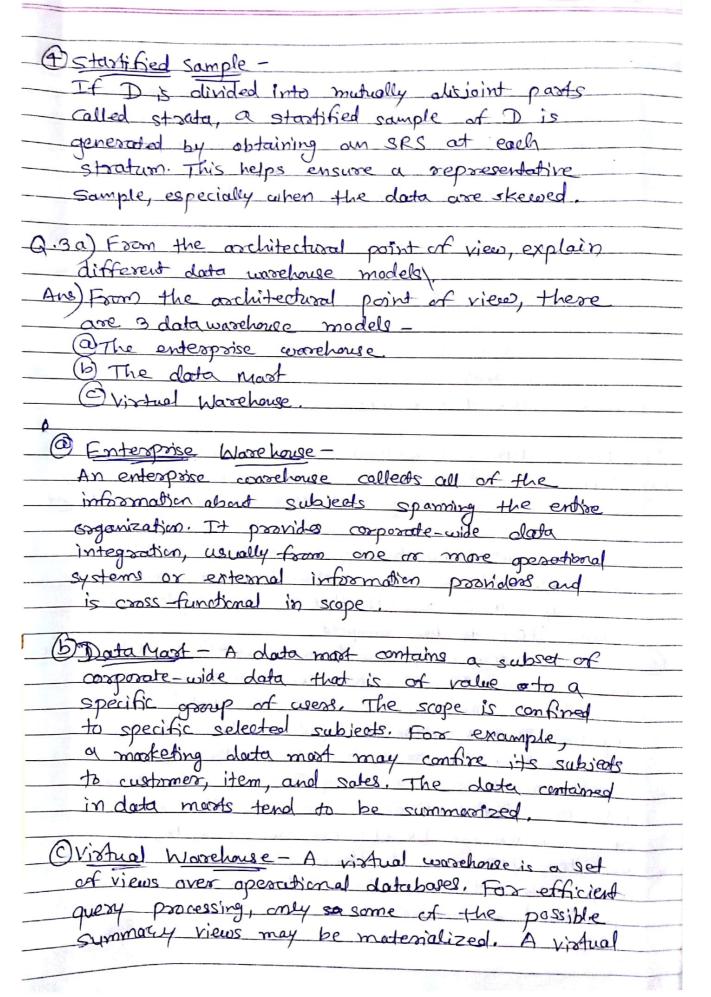
combination of paclocoard elimination & forward selection

(d) Decision tree Induction

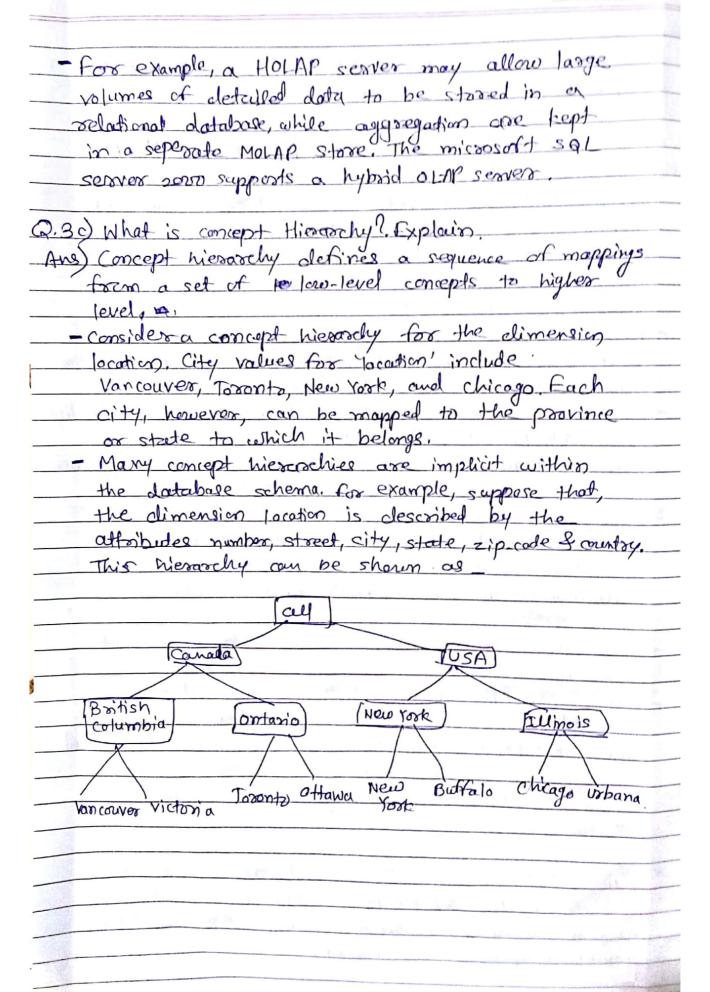
(a) stepwise Forward selection -
- The procedure starts with an empty set of
catholites as the reduceded set. At each
subsequent iteration or step, the best of
the remaining usiginal attributes is added
to the set.
(b) stancing Broke and Climination -
6) depuise Backward Elimination -
- The procedure starts with the full set of
attributes. At each step, it removes the
coast attaibute remaining in the set.
ash Em Use since Workerto make values!
35, 45, 50, 55, 60, 65, 75. Compute Five-number summary.
53, 45, 50, 51, 60, 65, 75. Constitute of the state of th
Cempide mean, median & made.
$\frac{1}{2}$ Mean $= \overline{x} = \frac{1}{2}$
\$ 10 BOLN = X = X=1
_ 35+45+50+55+60+65+75
7
- 385
7
i Median = 55 as it is the middle most value of
ir all the numbers if all are in scated order
le
- Mode - Mode for a set of data is the value that
- occurs most frequently in the set. Therefore, it
- can be determined for quantitive & qualitative
official of each data value occuss only once
than there is no made.
so Here also all values occurs only once
At there is no made.
<u>Lo</u>

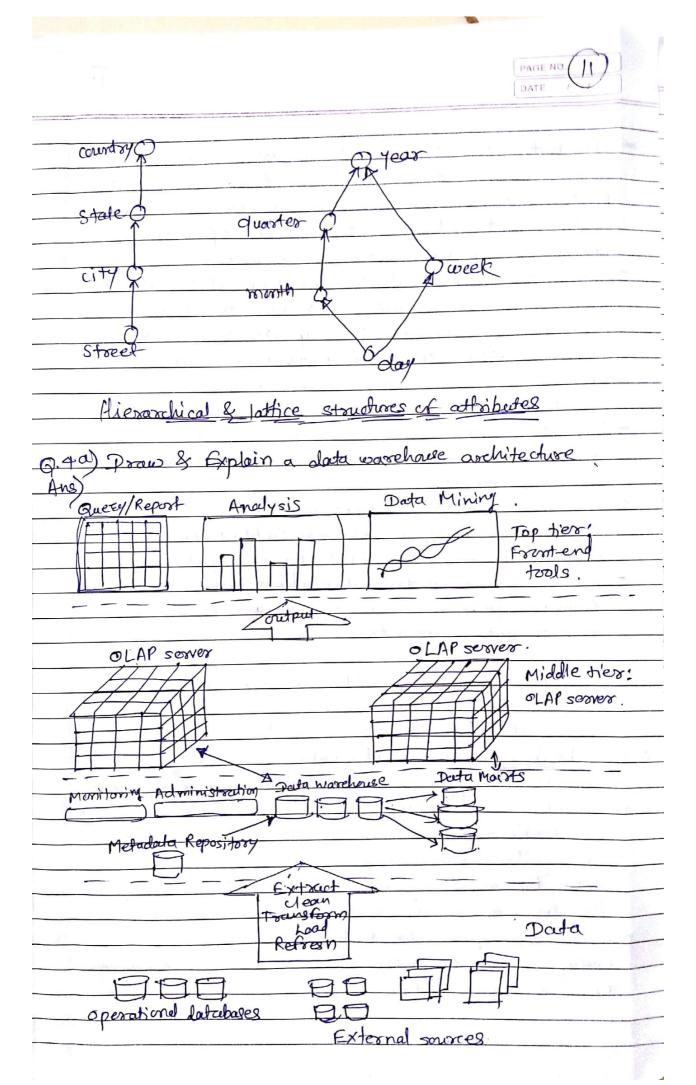
Five Number Summary -The quartiles give our indication of a distribution's center, spread & shape. The first quartile, denoted Q1, is the 25%. The third quartile denoted by 93, is 75%. The second quartile is the 50%, which gives the median of the data. So In the given data, (25%) Q1 = 45 value of data set = 35 highest value of data set = 7.5 This is the five-number summary 3.20) Exlist different methods of sampling are as follows I simple Random sample without seplacement (SRSWOR) of This is exected by drawing s of the N tuples from D (SKN), where the probability of drawing any tuple in D is 1/N, that is, all tuples equally likely to be sampled 2) Simple soundern sample with replacement (SRSWR) of sizes-This is similar to SRSWOR, except that each time a tuple is drawn from D, it is recorded & then replaced. That is, after a tuple is drawn, it is bouck in D so that it may be drawn again. placed back in D so that it may be drawn agrouped a Cluster sample - If the tuples in D are grouped into M mutually disjoint "clusters", then an SRS S clusters can be obtained, where SKM, For example, tuples in a database are usually retrieved a page at a time, so that each page can be considered a cluster



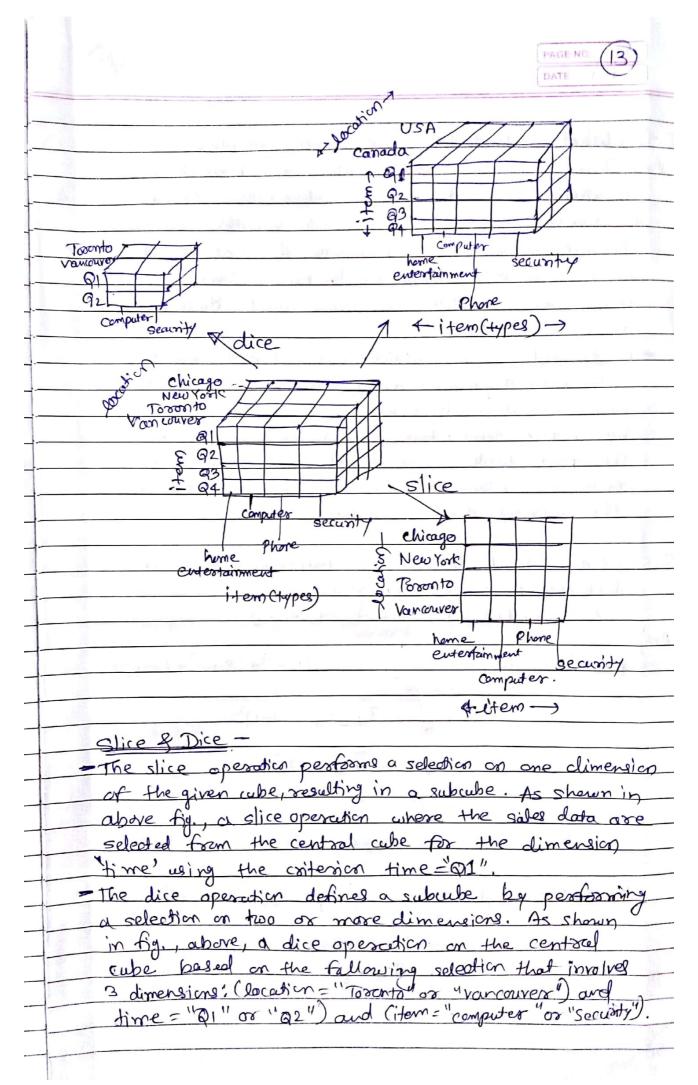


washouse is easy to build but requires excess
capacity un a pessodianal database servess.
A CONTRACTOR OF THE CONTRACTOR
Q3 b) Differentiate between ROLAP, & MOLAP and HOLAP.
Ans) Relational OLAP server-These are the intermediate
servers that stand between a relational back-end
someon & client front-end tool. They use a
relational or extended-relational DBMs to store and
manage warehouse dota, and OLAP middleware to
suppost missing pieces.
- ROLAP sorvers include apprimization for each DBMS
- back end, implementation of aggregation rea navigation
- logic, and additional tools and services.
- ROLAP technology tends to have greater scalability
- than MOLAP technology. The DSS server of
- Microstrategy, for example, adopts the ROLAP approach
- 12 Multidimensional OLAP Servers - These servers support
- multidimensional data views through Marray-based
- multidimensional Storage engines! They map
- multidimensional views directly to data cube assay
- structures.
- The adventage of civing a data rule is that it
- allow fast indexing to precomputed summarized alata.
- many MOIAP corress adopt a two-lovel storage
- data sets: Denser subcubes use identified and stored
dotte sets pens success source subsubes
- an array structures, whereas sperse subcubes - employ compression technology for efficient storage
employ compression testing to
- matilization.
- (2) Hybrid OLAP servers - The hybrid OLAP approach
- E) Hybrid OLAP servers - The hybrid OLAP approach combines ROLAP and MOLAP technology, benefiting from the greater scalability of ROLAP and the
from the greater scalability of ROLAP and the
- faster computation of MOLAP.





The bottom tier is a wavehouse database server
that is almost always a relational database system.
Back-end tools and utilities are used to feed
doctor into the bottom per form operational
databases or other external sources.
These trois and citilities perform data extraction,
cleaning & transformation às well as local
is refresh functions to update the data
wasehouse. The doubte are extracted using
application program interfaces known as
goteway.
- This tier also contains a metadada repository,
certical stones information about the data wavehouse
and its contents.
- The middle tiex is an OLAP server that is typically
implemented veing a relational OLAP (ROLAP) model
or a multiclimensional OLAP (MOLAP) model.
- The top tier is a foint-end client lager which
contains query and reporting tools, analysis tools,
and/ox data mining tools.
9.46) Explain following OLAP operations with example
i) Poll UP
ii) Slice & Dice.
Ans) i) Doill-up - This is also called as vall-up. It
performs aggregation on a data cube, either by
climbing up a concept hierarchy or a do by a
dimension reduction.
- the roll-up operation shown aggregates the
gott by ascending the facation hierarchy
The level of at city to the level of must ve
- When soll-up is personned by dimension
reduction, one or more dimensione are removed
from the given rube.



-Q.4)c) What is fact table and dimension table.	
Ans) Dimensions are entitles sales, item, branch &	
location, these dimensions allow the store	
to keep track of things like monthly sales	
A items and the branches & locations at	157
which the items werte sold. Each dimension	
may have a table associated with it, called	9 7
a dimension table.	
- Fact Table - A multidimensional data model	
is typically organized around a central there,	
such as sales. This scheme is represented	45/7
by a fact table. Facts are numeric measures.	West T
The fact table contains the names of the	100° - V
facts, or measures as well as keys to each of	
the related dimension tables.	
Q.50) Calculate Euclidean and Manhattan distance	
between fallowing 2 objects-	
$A = \S 2, 4, 8, 6 \S$, $B = \S 3, 4, 6, 7 \S$	
Ans)	
fuclidean distance = (2-3)2+(4-4)2+(8-6)2+(6-7)2	- 6
$= \int (-1)^2 + 0^2 + 2^2 + (-1)^2$	
$=\sqrt{1+0+4+1}$	
The second of th	15
$= \sqrt{6}$	
= 2.4494	
Reference to the second	
Manhattan distance = 2-3 + 4-4 + 8-6] + 6-7	
1 1 1 6-7	16 B
=1+0+2+1	
= 64	

- 1	
DSD) How to	compute dissimilarity between codegorical
inviable	s. Explain with suiteable example.
'Ara) A namin	al or categorical afforbute can take
+700 OX	more states. For example, map color
is a son	minal attribute that may have, fire
	,
- TI	reol, yellow, green, pinh & blue.
he dissi	milarity between two objects is
J. can be	computed based on the soctio of
mis medele	<u>'</u> Y',
101	1) 0
را) م	(i) = P - m
= s (ss) 1	P·
	on is the number of matches.
	? - is the total number of attributes.
	
Example -	- object Id test-I
	ode A
	2 code B
	3 code C
	4 code A.
To find	the dissimilarity between above nominal attributes
suppose 1	
	in a little war with a set of the
	0
	$(2,1)$ \mathbf{d}_{0}
	((3,1) d(3,2) 0
The state of the s	d(4,1) d(4,2) d(4,3) 0
if object	t i & i matches, d(i, i) = 0 otherwise 4.
So It bec	cmes,
- 40	The second secon
	O
	1 O and all the street and addition
Q //	0 1 1 0

	_
	1, 1
Q.sc) What is cosine similarity?	
Ans) A document can be represented by thousands	13
of attributes, each recording the frequency of	
a particular work or phrase in the document	
a similarity is mealine	19
son give a ranking of documents with respect	
to a given vector of query conds.	
1 1 be too weether the companies	_
Using the cosine measure as a similarity function,	
Using the Costic massive	
Love howe,	1
$= \frac{\sin(x,y) - x,y}{\sin(x,y)}$	
[x y .	1
The same of the sa	
where 11x11 is the Euclidean norm of vector x=	
(x, x2,, xp), defined as \(\frac{1}{2} + \frac{2}{2} + - + \frac{2}{2}.\)	Į.
(1) (3) - = 7 · (7)	
- This measure computes the cosine of the angle.	7
between vectors se & Y. The cosine value of o	
means that the two vectors are at 90 degrees	
to each other and have no match.	£3.
- The closer cosithe cosine value to 1, the smaller	
ungle and the greater the moth between	
vectors.	
The state of the s	-
a cal computer the cosine similarity arrange and	
Q.60) Compute the Cosine Similarity among following	
documents using term frequency vector_	
al,: "The sur is the sky is bright"	
de: "We can see the shiring sun, the bright sun"	
- The suring suring suring the bought sun"	
	-
	Birm

100										ON BURNEY OF THE PARTY.	-
Docu	ment	The	Sun	عن	sky	bright	We	con	see	shini	ny
Pocus	ment 1	2		1	. 1	ı i	0	0	0	0	O
Docur	nent 2	2	2	0	0	G P	1,	0	١		
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Th	119	x = (2,1	. 1 . 1	1.0	10,0,	0)	1 - 1 (-)			
						71,1,				1 . 14	
			(-)-	10,0	447	7 1,1	-	1)			
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_/* Kym 1										The same of the same of	

Q.66) How to compute dissimilarity between ordinal variables. Explain with suitable example. Ans) The computation process of finding dissimilarity between ordinal variables is similar to that of numeric attributes. Suppose that f is an
Ans) The computation process of finding dissimilarity between ordinal variables is similar to that of
between ordinal variables is similar to that of
between ordinal bariables is similar to that of
numeric attributes. Suppose that f is an
attribute from a set of loading attributes
describing or objects.
-The dissimilarity computation with respect to
f involves the following steps -
The value of f for the ith object is xif, and
f has My ordered states, representing the
ranking 1,, Mr. Replace each xix by its
Corresponding on the or Columnia
· Corresponding souk, six Ell, Mf}
B) Since each ordinal attribute can have a different
- number of states, it is often necessary to
- map the range of each outsibute onto [0.0, 1.0]
- so that each attribute has equal weight
- We perstorm such data normalization by
- We perform such data normalization by replacing - the rank rif of the ith object in the fith
- attribute by
- 3f = 8f-1
$-\frac{1}{M_{C}-1}$
The distance measures, described using any of
- the distance measures, described using zic
- refresent file I value to the Ital abject
- Example - Object-ID Coodinal test2
- excellent
2 fair
- 3 good
4 excellent

we	Know	that,	dissimilarity	matrix.	is
		,			/

7					_
1	0			1 1 7	
	d(2,1)	d 0	W 181	5 4	
	9(3,1)	d(3,2)	O		
	d(4,1)	d(4,2)	d(4,3)	0 .	

32 = 1

2 = 2

V4 = 3

$$\frac{1}{3}$$
 = $\frac{3}{3}$ = $\frac{1}{3}$

$$z_2 = 1 - 1 = 0 = 0$$

So sank 1 normalizes to 0.0

Janks mormalized to 1.0.

					=
Alone V	0			u vila	
	1.0	0	4.1		
	0.5	0.5	0		İ
	_0	1,0	0.5	0	
					-

Q.GC) Explain Data mot six & Dissimilarity mot six.
Ans) Dolta Matrix - This structure stores the
n data objects in the form of a relational
table, or n-by-p-matrix
21, 2/18
21, Nif Rip
2/m, 2/mf 2/mp
Entreme companies to an abject As and of notation.
Each sero corresponds to an object. As part of notation,
we can use f to index through p'attributed.
- Malaka
Dissimilarity Matrix -
this structure Stores a collection of proximities
that are available for all paids of nobicots. It is
often sepseiented by an n-by-n table-
- 40.1)
d(2,1) 0 $d(3,2)$ 0
- 4(3/2)
d(n,1) d(n,2 0)
[0(01,1) 0(1/12 === 0]
10.5.7
where d(i) is the measured dissimilarity or
"difference" between objects i &i. d(e, i) is
a non-negative number that is close to 0 when
objects is are highly similar or unear each
other, and becomes larger the more threy
differ.

Total N	io. of	Questions : 6]	SEAT No. :
P581	0		
1 201	U	200	[Total No. of Pages : 2
		BE/Insem ? Oct548	
		B.E. (E & TC) (Semester	- I)
	RA	DIATION AND MICROWAVE	TECHNIQUES
		(2015 Pattern)	
Time:	l Hou	11 2 8	
Instruc	tions	to the candidates?	[Max. Marks: 30
1)	At	uswer Q.1 of Q.2, Q.3 or Q.4, Q.5 or Q.6.	
2)	N	cat diagrams must be drawn wherever necess	
3)	Fi	gures to the right indicate full marks.	,.
4)	Us	e of Calculator is allowed.	do
5)		surie suitable data if necessary.	3.14.36
	`	, , , , , , , , , , , , , , , , , , , ,	4.7
Q1) a)	A		
~ /	30	free space microwave link consisting transmidB gain operates at 10 GHz. The distance	utter and receivers each of
	rec	ceiver is 20 km. The transmitter radiates 1:	between transmitter and
	po	wer received by the received and the path lo	W power. Calculate the
h)			
b)	De	fine antenna. Explain the radiation mechanis	sm in antenna. [4]
		CS JOR	
Q2) a)	Ere	who in the C. II	
$Q_{2}(a)$	EX	plain the following terms related to antenna.	.161
	i)	Half power beamwidth	×
	ii)	Gain	2:/.
	uj	Gaul	1 2/2
	iii)	Bandwidth	25 CO18 2: 18:36
b)	An	antenna has a radiation	Jo 3/2
٠,	70	antenna has a radiation resistance of 73Ω. If the power gain is 20, calculate the re-	and a loss resistance of
		If the power gain is 20, calculate the direct	Naity and efficiency of the
	tirito	.0	30 [4]
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~ J.
Q3) a)	Deri	ive the expression of a commercial	0'
	2011	ive the expression of array factor for Nelome	nt uniform linear array.[6]
b)	Give	e the comparison between Broadside array	and End Fire array [4]
			and End Fire array. [4]
		OR '	

Q4)	a)	Explain in short the Pattern Multiplication method. [6]
	b)	Find the phase difference required to steer a beam zenith to -40° for a 5 element array with 0.4λ internal element spacing. [4]
		√2.
Q5)	a)	What are microwaves Explain advantages and applications of Microwaves [6]
	b)	Determine the cut-off wavelength for the dominant mode in a rectangular waveguide of breadth 10 cm. For a 2.5GHz signal propagated in this
		waveguide in the dominant mode; calculate the guide wavelength, the group and the phase velocities? [4]
		0, 70,
		OR OR
Q6)	a)	With a neat diagram explain the working of a rectangular cavity resonator.  Obtain the expression for resonant frequency of oscillation. [6]
	b)	Write a short note on stripline. [4]
		20 201
		With a neat diagram explain the working of a rectangular cavity resonator.  Obtain the expression for resonant frequency of oscillation.  [6]  Write a short note on stripline.  [4]
		0, 6,
		The state of the s
		William Contraction of the Contr
		J. 80
		Talasie Carolinasie Carolinasi
		Chi Bin
		Ø.
		W.
BE/Ir	isen	1./Oct548

Total No. of Questions : 6]

P5954

0

## BE/S/INSEM./OCT. - 548 B.E. (E & TC)

# RADIATION AND MICROWAVE TECHNIQUES

(2015 Pattern) (Semester - I)

#### Scheme of Marking

Q1 a) 
$$(G_{Q})_{+} = (G_{DMA})_{\gamma} = 30 \text{ db}$$
  $f = 10 \text{ GHz} = 10 \times 10^{3} \text{ Hz}$ 
 $7 = 20 \text{ km} = 20 \times 10^{3} \text{ m}$ ,  $T_{YO} = 15 \text{ W}$ 
 $\lambda = \frac{C}{f} = \frac{3 \times 10^{3}}{10 \times 10^{3}} = 0.03 \text{ m}$ 

The path loss in db

 $P_{LOSS} = 10 \log_{10} \left(\frac{4\pi Y}{A}\right)^{2} = 20 \log_{10} \left[\frac{4\pi \times 20 \times 10^{3}}{0.03}\right] - (10 \times 10^{3})$ 
 $= 138.4623 \text{ dB}$ 
 $P_{Veceived} = (G_{OMAX})_{\chi} (G_{DMAX})_{\gamma} P_{YO} \left(\frac{A}{4\pi^{3}}\right)^{2} - (10 \times 10^{3})$ 
 $(G_{DMAX})_{\xi} = (G_{DMAX})_{\chi} = 10^{3} = 1000$ 
 $P_{Veceived} = 1000 \times 1000 \times 15 \left[\frac{0.05}{47 \times 20 \times 10^{3}}\right]$ 
 $= 2.1372 \times 10^{-7} \text{ W}$ 
 $= 0.2137 \text{ uW}$ 

Defination of antenna

 $P_{X}$   $P_{X}$ 

	7	Bandwidth	
	7	pefination	
		Mathematical expression	
1	) K	Rrad = 73 se Rioss = 7-se Gp = 20	
		Mr = Prad + Ploss = Rrad + Rloss	-(72)
		$= \frac{73}{73+7} = \frac{73}{80} = 0.9125$	
		/ nr = 91.25 %	1/2
		Gp= 7, Gd	1/2
		$G_d = \frac{G_p}{\eta_x} = \frac{20}{0.9125} = 21.9178$	-(1/1)
		$\eta_{\gamma} = 0.9125$	)-0
		Ga (in db) = 10 log, (Ga) = 10 log, (21.9178)	70
		= 13.4079 db	<u> </u>
<b>Q</b> 3	9)	Deciration of accept factor for Nelement uniform linear accept.  Diagram	nt_(9) - (2)
	り	Comparison between broadside actay and end fire actay	-(4)
		Any four points	
94	<b>a</b> )	Diagram -	(3)
41	-)	Explanation of pattern multiplication-	-3
	6)	n=5 d=0.42 24=-40°	
		$\psi = \frac{2\pi}{\lambda} d \cos \theta + \beta$	<u>-0</u>
		Here assume B=0	-0
		Ψ = 2π (0.4A) cos (-20°)	<b>-</b> ①
		y = 2.3617 rad	-0
		•	

- Applications

  Applications
  - b)  $\lambda_1$  for dominant mode in TE10  $\lambda_2 = 2.0 = 2.10 = 20 \text{ m}$  , 4.2.56 m  $\lambda_0 = \frac{3 \times 10^{10}}{4} = 12 \text{ cm}$   $\bigcirc$ 
    - 13. 1-(4.)2
    - $\lambda_3 = \frac{1^2}{\sqrt{1 \left(\frac{12}{20}\right)^2}} = \frac{1^2}{0.8} = 15 \text{ cm} \boxed{3}$
    - - Vp = 34108 = 3.75×10° cm/sec 3
        - c 2 vp V3 -----
      - Vg = \frac{C^2}{Vp} = \frac{(3 \times 10^{19})^2}{3.75 \times 10^{19}} = 2.4 \times 10^{19} cm/sec \frac{1}{2}
- Q6 0) Diagram of redangular cavity resonator 3

  Expression for resonant frequency of 3

  oscillation
  - 5) Short note on stapline
    Diagram & Explanation
    Types of stapline

    2

0404



## Marathwada Mitramandal's

## **COLLEGE OF ENGINEERING**

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Recognized under section 2(f) and 12B of UGC Act 1956

## **External Assessment**

University Theory Examination Time Table

# SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



# **EXAMINATION CIRCULAR NO.153 OF.2019**PROGRAMME OF SECOND YEAR(2015 COURSE)ENGINEERING

#### **Examination of APR/MAY-2019**

(Under Faculty of SCIENCE AND TECHNOLOGY : B)ENGINEERING)
<u>INSTRUCTIONS FOR CANDIDATES</u>

- 1. Candidates are required to be present at the examination centre, THIRTY MINUTES before the time fixed for paper.
- 2. Candidates are forbidden from taking any material into the examination hall, that can be used for malpractice at the time of examination.
- 3. Candidates are requested to see the Notice Board at their place of examination regularly for changes if any, that may be notified later in the program.
- 4. No request for any special concession such as a change in time or any day fixed for the University Examination on any ground shall be granted.
- 5. Candidates are requested to note the Day, Date and Time of every Paper on every day.
- 6. Candidates are permitted to use stencils at the time of examination.
- 7. Candidates appearing for the examinations are expected to provide themselves with Side- rules.
- 8. The exchange or loan of side-rules, drawing instruments of other materials used in the examination hall is Not Permitted while the examinations are in process.
- 9. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- 10. Use of non-programmable battery operated electronic Calculator of Pocket-size is allowed. The exchange of Calculators is not allowed.
- 11. The written examination will be conducted in the following order.
- 12. The Practical/Oral examination will be conducted between 11/04/2019 to 25/04/2019.
- 13. Students of 2012 Course have to appear for equivalant subjects to 2015 course. (Circular No 86/2018 dated 12 Jun, 2018)

APR/MAY2019 Page 1 of 10

#### **COMPUTER**

#### SEM-I

	2015 Course TIME-10.00 AM To 12.00 PM
Day & Date	Subject
Saturday 04/05/2019	Discrete Mathematics (210241)
Thursday 09/05/2019	Digital Electronics & Logic Design (210242)
Saturday 11/05/2019	Data Structures & Algorithms (210243)
Tuesday 14/05/2019	@ Operating System & Administration (210244)
	Computer Organization and Architecture (210244)
Thursday 16/05/2019	Object Oriented Programming (210245)

#### **SEM-II**

	2015 Course TIME-10.00 AM To 12.00 PM
Day & Date	Subject
Monday 20/05/2019	* Engineering Mathematics-III (207003)
Wednesday 22/05/2019	Computer Graphics (210251)
Friday 24/05/2019	@ Microprocessor Architecture (210245) :SEM-1
	Advanced Data Structures (210252)
Monday 27/05/2019	@ Computer Organization (210250)
	Microprocessor (210253)
Wednesday 29/05/2019	@ Microprocessor and Interfacing Techniques (210248)
	Principles of Programming Languages (210254)

#### **NOTE:-**

APR/MAY2019 Page 4 of 10

^{*} Common with Information Technology.

[@] As no equivalence to this subjects is given in (2015 Pattern) backlog students of 2012 Pattern will have to appear for this subject.

#### **ELECTRICAL**

#### SEM-I

	2015 Course TIME-10.00 AM To 12.00 PM
Day & Date	Subject
Saturday 04/05/2019	* Engineering Mathematics- III (207006)
Thursday 09/05/2019	Power Generation Technologies (203141)
Saturday 11/05/2019	Analog and Digital Electronics (203143)
Tuesday 14/05/2019	Material Science (203142)
Thursday 16/05/2019	Electrical Measurements and Instrumentation (203144)

#### SEM-II

	2015 Course TIME-10.00 AM To 12.00 PM
Day & Date	Subject
Monday 20/05/2019	Electrical Machines-I (203146)
Wednesday 22/05/2019	Power System-I (203145)
Friday 24/05/2019	Network Analysis (203147)
Monday 27/05/2019	Numerical Methods and Computer Programming (203148)
Wednesday 29/05/2019	Fundamentals of Microcontroller and Applications (203149)

#### NOTE:-

APR/MAY2019 Page 5 of 10

^{*} Common with Instrumentation and Control.

#### **ELECTRONICS/E & TC**

#### SEM-I

	2015 Course TIME-10.00 AM To 12.00 PM
Day & Date	Subject
Saturday 04/05/2019	Signals & Systems (204181)
Thursday 09/05/2019	Electronic Devices & Circuits (204182)
	@ Electronic Devices & Circuits (204182)
Saturday 11/05/2019	Electrical Circuits and Machines (204183)
	@ Network Theory (204183)
Tuesday 14/05/2019	Data Structures & Algorithms (204184)
Thursday 16/05/2019	Digital Electronics (204185)

#### **SEM-II**

	2015 Course TIME-10.00 AM To 12.00 PM
Day & Date	Subject
Monday 20/05/2019	Engineering Mathematics-III (207005)
Wednesday 22/05/2019	Integrated Circuits (204187)
Friday 24/05/2019	Control Systems (204188)
Monday 27/05/2019	Analog Communication (204189)
Wednesday 29/05/2019	Object Oriented Programming (204190)
	@ Computer Organization (204190)

#### NOTE:-

@ As no equivalence to this subjects is given in (2015 Pattern) backlog students of 2012 Pattern will have to appear for this subject.

APR/MAY2019 Page 6 of 10

#### **INFORMATION TECHNOLOGY**

#### SEM-I

	2015 Course TIME-10.00 AM To 12.00 PM
Day & Date	Subject
Saturday 04/05/2019	Computer Organization & Architecture (214442)
Thursday 09/05/2019	Digital Electronics and Logic Design (214443)
Saturday 11/05/2019	Fundamentals of Data Structures (214444)
Tuesday 14/05/2019	Problem Solving and Object Oriented Programming (214445)
Thursday 16/05/2019	Discrete Structures (214441)

#### SEM-II

	2015 Course TIME-10.00 AM To 12.00 PM Subject	
Day & Date		
Monday 20/05/2019	* Engineering Mathematics -III (207003)	
Wednesday 22/05/2019	Computer Graphics (214450)	
Friday 24/05/2019	Processor Architecture and Interfacing (214451)	
Monday 27/05/2019	Data Structures & Files (214452)	
Wednesday 29/05/2019	Foundations of Communication and Computer Network (214453)	

#### NOTE:-

APR/MAY2019 Page 7 of 10

^{*} Common with Computer.



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## **Internal Assessment**

Unit Test Question Papers, Solution, Sample Sheets, Marks

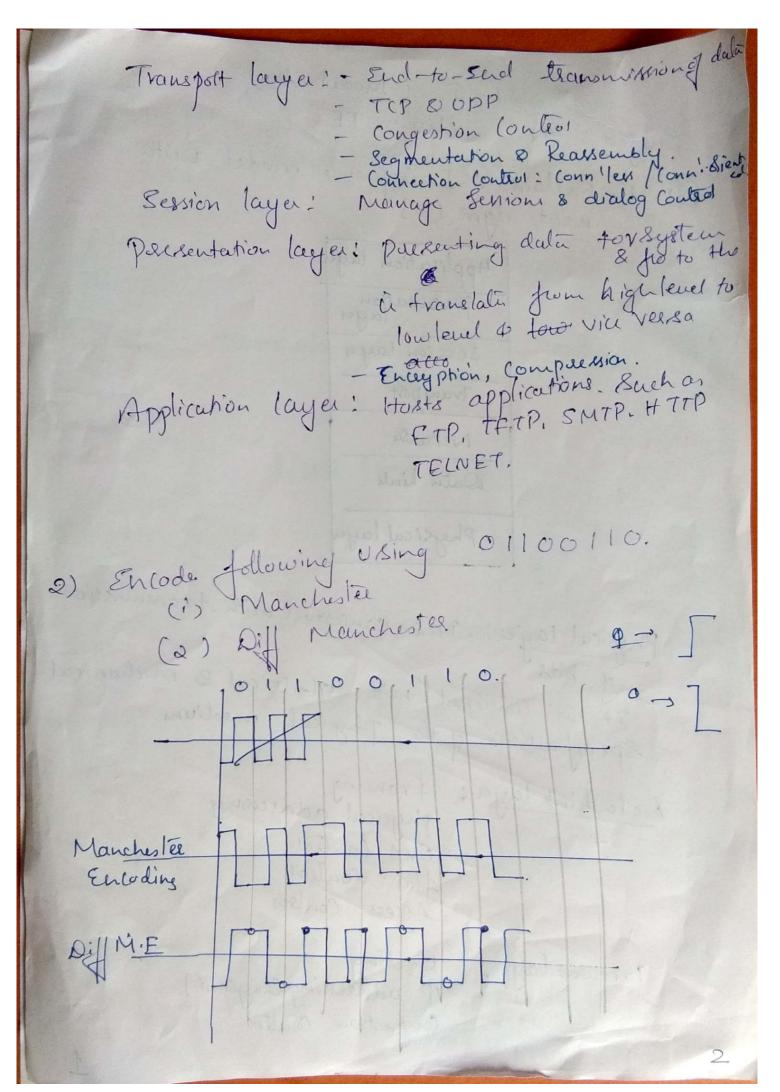
#### Marathwada Mitra Mandal's

# **College Of Engineering, Pune**

## Accredited with 'A' Grade by NAAC **Department of Computer Engineering**

A.Y. 2018-19	Unit Test	SEM-I
Class: T.E.	Course:Computer Networks Unit No. :1	
Time: 30 Minute	es ·	Maximum Marks: 10
	<b>N.B.:</b> - All questions are	compulsory
<b>Q.1</b> (a)Explain OSI	n [3]	
<b>Q.1</b> ( <i>b</i> )Encode the f	[2]	
i) Manchester ii) Di	iff Manchester Line Coding Technique	2.
Q.1 (c)Explain varie	[3]	
<b>Q.1</b> (d)Write short i	[2]	

UT-E (Model Ans) Subject: CN. Class: TE Q1, 1. Explain OSI reference model neith neat dyn [3] Application layer Palsentation lager Session layer Transport Netwske Data Link Physical layer Physical lagier: -It is concerned with transmission It is concerned neith. Electrical & mechanical Specifications of the Physical medium Data hint layer: framing physical addressing Esso Control flow content Access Conlegs Kouting Network layer: IP addressing Chagical) Congestion Control



@2 (0) Explain Various networking duices. - Works at physical layer · Connects. multiple n/w hosts & data - When host sends a pkt the hub broad (asts to all of its posts connected - Not Secure 8 safe. - Slower 8 more longesket Bridge is uned to divide a large New into Bridge Smaller Segments Join diff media types such as UTP with - Join det New architecture such as Ethernet neith Token Ring Breitch: Data line layer device - more intelligent than hub When a frame comes, it cheeks Is end 8 then Iswards of drops. Cut - through. Stoll - b & Sweed Steelegy Kouler New layer device. As would plet barred on desta adde maintain Routing table
maintain Routing table
connects small who is large now
connects diff now architecture. prototols & media

(b) herite short note on spread spealean

- In Spread spealaun, me combine signals
from diff sources into to fit into a SS is is designed for niècles applications. larger Boardwidth. So adds dedundancy to the input data to 'spread the Engral. If dry Bw for each station is B, ss expands it to Bss, Such that Bss >> B. Spreading process Two techniques to SS (1). Farguncy hopping 85 3 Didnet Segunce SS

## College Of Engineering, Pune Department of Electrical Engineering

A.Y. 2018-19

**Unit Test** 

Sem-II

Class: T.E.

Subject: Power System II

Date: 05/03/2019

Unit No.: III

Time: 30 Minutes

Maximum Marks: 10

N.B.: - All questions are compulsory

Q. 1 A) What do you mean by p.u. system ? Prove that the single phase and three phase values are same in p.u.

(03)

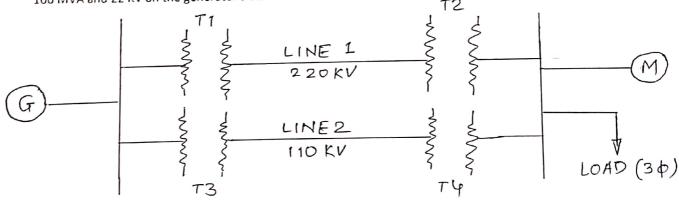
Q. 1 B) Determine the unknown elements from following Yeus matrix.

(02)

Q. 2 A) Explain the Newton – Raphson method for load flow analysis along with the flow chart (polar coordinates)

(03)

Q. 2 B) The one line diagram of a 3 phase power system is shown below. Select a common base of 100 MVA and 22 KV on the generator side.



Draw its impedance diagram with all impedances including the load impedance in p.u. The manufacturer's data for each device are given below:

G: 90 MVA, 22 KV, X= 18 %

T1 : 50 MVA, 22/220 KV, X= 10 %

T2: 40 MVA, 220/11 KV, X= 6 %

T3: 40 MVA, 22/110 KV, X= 6.4 %

T4: 40 MVA, 110/11 KV, X= 8 %

M : 66.5 MVA, 10.45 KV, X= 18.5 %

The 3 phase load absorbs 57 MVA, 0.6 pf lagging at 10.45 KV. Line 1 and Line 2 have reactances of 48.4  $\Omega$  and 65.43  $\Omega$  respectively.

(02)

# TE(Electrical) Unit Test III (On Unit No. III) Sub. 3- PS-II

Model Answers and Scheme of Marking

(0,14) Explain the meaning of pu system show how I ph and 3 ph values are same in pu i.e. pu 
$$kv = \frac{kV_{Aetual}}{kV_{B}}$$
;  $I_{pu} = \frac{Actual Current}{kV_{AB}}$ 

$$Y_{11} = Y_{12} + Y_{14}$$
  $Y_{12} = -Y_{12} = Y_{21} Y_{13} = -Y_{13} = Y_{31}$   
 $Y_{14} = -Y_{14} = Y_{41}$ ,  $Y_{22} = Y_{12} + Y_{23}$   
 $Y_{23} = -Y_{23} = Y_{32} = -J_{5}$   
 $Y_{24} = -Y_{24} = Y_{42}$   
 $Y_{33} = Y_{23} + Y_{13} = Y_{33}$ 

9,2A) Explain Newton-Raphson method.

Draw its flow chart.

VIAW ITS THE CHAIL

Base kv on gen side = 22 kv

pureactance of gen = 0.18 ×  $\frac{100}{90}$  ×  $\left(\frac{22}{22}\right)^2$  = j0.2 pu

 $T1 = 0.10 \times \frac{100}{50} \times (\frac{22}{22})^2 = j_{0.2} p_{4}$ 

 $T3 = 0.064 \times \frac{100}{40} \times (\frac{22}{22})^2 = j0.16 P4$ 

Base KV in line 1 = 22 x K of T1 = 22 x 220 = 220 kV

:. pu of line 1 = Actual x KVAB = j48.4 × 1000 = j0.1

Base Kv in line 2 = 22 × 110 = 110 KV

: pu of line 2 = j65,43 x 1000 = j0.54 p4

pu reactance of  $T2 = 0.06 \times \frac{100}{40} \times (\frac{220}{220}) = j0.15 py$ 

- Page 2 of 3

Base KV in motor (kt = 220 x k of T2

OR 110 x k of T4 = 11 kV

PU reactance of motor ckt = 0.185 x 
$$\frac{100}{66.5}$$
 x  $\left(\frac{10.45}{11}\right)^2$ 

=  $\frac{10.751}{11}$  pu

Base voltage for load = Base voltage for motor = 11 kV

 $\frac{1000}{11}$  =  $\frac{1000}{57}$   $\frac{100}{57}$   $\frac{1000}{57}$   $\frac{1000$ 

# COLLEGE OF ENGINEERING, PUNE

Accredited with 'A' Grade by NAAC
Department of Electrical Engineering

A	Departi	ment of Elec	trical Engineering		
-	Date	9- 05	103/2019		
Sub	PS-IL	Faculty	,	Unit Test	III
print the later of		AHEN	Marks		
Roll	Name of Student		obtained		Total
No.		dance			
	AAFAQ AHMAD BHAT	Ports	04		-
TE 02	AMIT KUMAR GUPTA	Dist	03		
TE 03	ANMULWAD SHYAM SAMBHAJI	Strind	04		-
TE 04	ARMAL VISHAL SUDHAKAR	M.	02		-
TE 05	AWASTHI AKSHAY DHANANJAY	<b>3</b>	04		-
TE 06	BARI SHUBHAM VASUDEV	Bour	04		-
TE 07	BHALKARE CHETAN NARAYAN	Clys	05		-
TE 08	BODKE PRANAV SANJAY	Jahro	06		
TE 09	BUDDAWAR VAIBHAV NARSIMLU	Tours	04		
TE 10	CHOUGULE KUNAL SUJEET	Ostal.	05		
TE 11	DAVANE MONIKA ANKUSH		- AB-		
TE 12	DESHMANE MEGHA ABASO		-AB+		
TE 13	GAME KARTIK RAJENDRA	AB	-ABT		
TE 14	GAURI KULKARNI	11	-AB+		
TE 15	GAVHANE SHUBHAM KISAN	W	-AB-		
TE 16	HUKKERIKAR SIDDHI SANJEEV	acst_	. 04		
TE 17	JADHAV CHETAN NANASAHEB		-AB+		
	JOSHI PRADNYA ANIL	(AB)	-AB+		
	KAGDE PALLAVI BHARAT		-ABT		
	KAPADANE AASHISH MUKUNDRAO	YOUK	04		
	KAWALE CHHAYENDRA VISHNU	GE	05		
	KULKARNI MRUNAL DATTATRAYA	(AB)	+ ABT		
	MALI SAMEEKSHA UMESH		AB+		
	MARATHE YASH UDAY	part			
	MESHRAM RAHUL DAMODHAR	POHUL.	04		
	MORKHANDE AVINASH SANGRAM	OBU-	-AB+		
	NAIKAWADI NIKHIL PRADIP	TAMA	03		
	NANAWARE ASHUTOSH GOVIND	(AB)	- AB		
	NARWADE MANISHA DEVRAO	400	-AB-	-	
	NAYKAWDI YOGESH ASHOK	-AB-	04		
-	NEMADE RISHIKESH RAJENDRA	padole	-AB-		
	PADOLE AISHWARYA SHIVANANDRAO	A A A	05		
-	PADOLE VAISHNAVI NILKANTH	Codate			
-	PALASH SANJAY BOBADE	-AB-	-ABT		
-	PATIL PRITI VIJAY	Ontil	05		
TE 36	PATIL ROHAN GOPAL	Pohan	05		

04

05

04

-AB-

TE 37 PATIL URVESH SUBHASH

TE 39 PRADEEP BABU KUTE

TE 40 PRIYA SANJAY MORE

TE 38 PIMPARKAR POOJA HEMRAJ

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TE 41	RAIPATREWAR AKANKSHA NITINRAO	teres-	06	a material ramid raminal and the same of t	Committee of the Commit
	RAJE PRAJAKTA DHANANJAY	25304	05		and the second
1	RAMOSHI JYOTI BHAGWAT	TED.	05	and the second and th	
1	RUTVIK CHINCHMALATPURE	Refull	104	and the second s	
1		-AB-	- ABT		
TE 45	SALUNKHE PRASAD BABASAHEB	A service of the serv	Committee of the second	- CONTRACTOR OF THE CONTRACTOR	
TE 46	SANKPAL ROHAN UTTAM	House	06	and the second s	and the second second second second
TE 47	SANYOG CHAMLATE NISHA	-A3-	+AB	The second secon	Constitution of the Consti
TE 48	SARWADE PRATIKSHA SHAHURAJ	عليات	05	and the second s	essi mensam mente sondre pres intertament d
TE 49	SHAIKH SAMEER SHAHADAT	Jan Jan	04	and the state of t	A CONTRACTOR OF THE PARTY OF TH
TE 50	SHINDE OMKAR ASHOK	-AB-	-AB-		
TE 51	SHIRKE ASHISH GAJANAN	Add	05		
TE 52	SHIVAM R CHAUBEY	to	04		
TE 53	SUTHAR DEEPAK JIVARAM	-AB-	-AB-		
TE 54	THAKARE KANCHAN RAVINDRA	Allyn	04		
TE 55	WAGHMARE MRUNALI BHAGVAN	Magninare	05		
TE 56	WAGHMARE SHAKUNTALA SHIVAJIRA	OS kalenetell	06		

Total No. of Students in class	2	56	
present	:	36	
absent	5	20	
	:	33	
% of passing	;	91.66	∘/.

HOD

Course Coordinator

Bh

## College Of Engineering, Pune Department of Electrical Engineering

A.Y. 2018-19

**Unit Test** 

Sem-II

Class: T.E.

Subject: Power System II

Date: 20/02/2019

Unit No.: II

Time: 30 Minutes

Maximum Marks: 10

N.B.: All questions are compulsory

Q. 1 A) What are the factors and conditions which affects corona loss.

(03)

Q. 1 B) Determine critical disruptive voltage, visual critical voltage and corona loss under foul weather condition for 3 ph line, 160 km long, conductor diameter 1.036 cm, 2.44 cm delta spacing, air temperature 26.6 °C corresponding to an approximate barometric pressure of 73.15 cm of Hg, opening voltage 110 KV at 50 Hz, surface irregularity factor 0.85, assume a value of m_v = 0.72

(02)

Q. 2 A) Justify the need for EHV AC transmission.

(03)

- Q. 2 B) A power of 2000 MW is required to be transmitted from super thermal power station in Central India over 800 Km to Delhi. Use 400 KV as transmission voltage level. The angle between sending and receiving end is maintained at 30°. The average values of R and X are 0.031 ohm/ph/km and 0.327 ohm/ph/km. Suggest the number of circuits required and Calculate total power loss and loss per km if transmission line is
  - (i) Compensated (ii) 50 % series compensated

(02)

Model Answers & scheme of marking

R. NO 1B) 
$$S = \frac{3.92b}{273+t} = 0.957$$
 $V_{CD} = g_0 \delta m_0 r \ln \left(\frac{d}{r}\right)$ 
 $= 21.1 \times 0.957 \times 0.85 \times 0.518 \ln \left(\frac{2uy}{0.518}\right) = 54.72 \text{ kV}$ 
 $V_{CV} = g_0 \delta m_V r \left(1 + \frac{0.3}{\sqrt{\delta r}}\right) \ln \left(\frac{d}{r}\right)$ 
 $= 21.1 \times 0.957 \times 0.72 \times 0.518 \times \left(1 + \frac{0.3}{\sqrt{0.957 \times 0.518}}\right) \ln \frac{244}{518}$ 
 $= 66.1 \text{ KV}$ 

$$P'_{c} = \frac{244}{5} (f + 25) \sqrt{\frac{r}{d}} (V_{ph} - 0.8 V_{cD}) \times 10^{-5} \text{ kw/km/ph}$$

$$= 3.43 \text{ kw/km/ph}$$

$$= 3.43 \times 160 \times 3 = 1646.4 \text{ kw}$$

- Page 1 of 2

- 1) Sucreese in efficiency & improvement of voltage regulation
- 2) construction of power un for huge power rision is more economic
- 3) inevitable in case of huge power x'ssion over long distances from power plants to load centres
- 4) frexibility for future system growth
- 5) Possibility of interconnection of power systems
- 6) Increase of xision capacity of line
- 7) Increase of SIL
- 8) Right of -way reduction

With 50 1. Compensation

: No. of chts required = 
$$\frac{2000}{611.62} = 3.27$$

# COLLEGE OF ENGINEERING, PUNE

THE CURTON

TE 23 MALI SAMEEKSHA UMESH

TE 27 NAIKAWADI NIKHIL PRADIP

TE 25 MESHRAM RAHUL DAMODHAR

TE 26 MORKHANDE AVINASH SANGRAM

TE 28 NANAWARE ASHUTOSH GOVIND

TE 29 NARWADE MANISHA DEVRAO TE 30 NAYKAWDI YOGESH ASHOK

TE 31 NEMADE RISHIKESH RAJENDRA

TE 33 PADOLE VAISHNAVI NILKANTH

TE 34 PALASH SANJAY BOBADE

TE 37 PATIL URVESH SUBHASH

TE 38 PIMPARKAR POOJA HEMRAJ

TE 35 PATIL PRITI VIJAY

TE 36 PATIL ROHAN GOPAL

TE 39 PRADEEP BABU KUTE

TE 40 PRIYA SANJAY MORE

TE 32 PADOLE AISHWARYA SHIVANANDRAO

YE 24 MARATHE YASH UDAY

Accredited with 'A' Grade by NAAC

5	Depart	ment of Elec	ctrical Engineering		
· Parent	Pate	:- 20	102/2019	. (7)	
Sub	PS-31	Faculty	BBB	Unit Test II	
Roll No.	Name of Student	Assen	Mark,8 Obtained		
TE 01	AAFAQ AHMAD BHAT	Anto	06		
TE 02	AMIT KUMAR GUPTA	-AB-	-AB-		
TE 03	ANMULWAD SHYAM SAMBHAJI	STUD	06		
TE 04	ARMAL VISHAL SUDHAKAR	AI.	07		
TE 05	AWASTHI AKSHAY DHANANJAY	1	07		
TE 06	BARI SHUBHAM VASUDEV	-AB-	-AB-		
TE 07	BHALKARE CHETAN NARAYAN	clue	07		
TE 08	BODKE PRANAV SANJAY	Jadue	06		
TE 09	BUDDAWAR VAIBHAV NARSIMLU	Expra	0.5		
E 10	CHOUGULE KUNAL SUJEET	Os)cr	07		
TE 11	DAVANE MONIKA ANKUSH	Donie	06		
TE 12	DESHMANE MEGHA ABASO	Meshury	06		
TE 13	GAME KARTIK RAJENDRA	(Kame	07		_
TE 14	GAURI KULKARNI	AUR"	06		
THE RESERVE THE PARTY.	GAVHANE SHUBHAM KISAN	Luther	07		_
Man a base a second	HUKKERIKAR SIDDHI SANJEEV	BUST	08		
	JADHAV CHETAN NANASAHEB	chelan't	08		-
-	JOSHI PRADNYA ANIL	padrya-	06		_
	KAGDE PALLAVI BHARAT	Pkunde	07		$\dashv$
	KAPADANE AASHISH MUKUNDRAO	Anrik	07		-
-	KAWALE CHHAYENDRA VISHNU		06 -AB		-
TE 22	KULKARNI MRUNAL DATTATRAYA	-AB-	7 (105)		_

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TE 41	RAIPATREWAR AKANKSHA NITINRAO	AKartisto	<b>-</b> 87	08	2				
TE 42	RAJE PRAJAKTA DHANANJAY	707E	eter unavride (funiamien a	06					
TE 43	RAMOSHI JYOTI BHAGWAT	PR	production and the control of the co	07	April a speed despite from the first of the	A TOTAL SUSPENSION SERVICES SOFT SOFT			
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TE 46	SANKPAL ROHAN UTTAM	Rust	-	06		A CONTRACTOR OF THE PARTY OF TH			425
TE 47	SANYOG CHAMLATE NISHA	Quyy-	-	07	and the state of t	and the State Control Street St. St. Control of	100		
TE 48	SARWADE PRATIKSHA SHAHURAJ	Jule		09	other scale of transition of their		A STATE OF THE PARTY OF THE PAR		
TE 49	SHAIKH SAMEER SHAHADAT	Cary		08	The state of the s	Complete Chipmen as an inst			
TE 50	SHINDE OMKAR ASHOK	-AB-	-	-AB-	_				
TE 51	SHIRKE ASHISH GAJANAN	And		06		-			
TE 52	SHIVAM R CHAUBEY	Lung		06	-				
TE 53	SUTHAR DEEPAK JIVARAM	Dome		OG					
TE 54	THAKARE KANCHAN RAVINDRA	Burelum		05				-	-
	WAGHMARE MRUNALI BHAGVAN	Waghmare		08					1
TE 56	WAGHMARE SHAKUNTALA SHIVAJIRAC	Shalausta		07					7

Total No. of Students in class: 56	
present ; 51	
absent : 05	
passed: 51	
% of passing: 100 %.	

Course Coordinator

## College Of Engineering, Pune Department of Electrical Engineering

A.Y. 2018-19

**Unit Test** 

Sem-II

Class: T.E.

Subject: Power System II

Date: 07/02/2019

Unit No.: I

Time: 30 Minutes

Maximum Marks: 10

N.B.: All questions are compulsory

Q. 1 A) "Receiving end power circle diagram of a transmission line is based on generalized constants". Justify the statement.

(03)

Q. 1 B) A 3 phase 132 KV overhead transmission line delivers 50 MVA at 132 KV and p.f. 0.8 lag at its

RE. The constants of lines are A=0.98<3°, B=110<75° ohm/ph Find line value of sending end voltage.

(02)

Q. 2 A) With significance, explain different types of compensation given to transmission line.

(03)

Q. 2 B) If a 3 ph TL supplies a load at 132 KV and at 0.85 pf lag when sending end voltage is 140 KV.

The resistance and reactance of TL per phase is 3 ohm and 10 ohm respectively. Using RE end power circle diagram, determine the load which the line will be supplying.

(02)

Model Answers and Scheme of Marking

Q. NO. 1 A)

× coordinate of centre of circle = 
$$-\frac{A}{B}V_R^2\cos(B-A)$$

$$4 - 1 - \frac{A}{B} \sqrt{\frac{2}{R}} \sin(B - \lambda)$$

Radius of Circle = VSVR

which justifies the statement

02

$$S.NO.1B$$
  $V_R = \frac{V_{RL}}{\sqrt{3}} = 76.21 \text{ kV}$ 

- Page 1 of 2

8. No. 2 B) Radius of circle =  $\frac{V_{SL}V_{RL}}{I3}$  = 1770 MVA × Coordinate =  $-\frac{A}{I3}V_{RL}^2\cos(\beta-\alpha) = -479.5948$  MW Y coordinate =  $-\frac{A}{I3}V_{RL}^2\sin(\beta-\alpha) = -1598.57$  MVAr Power supplied = 0a' = 0.45 cm (0.45×200) = 90 MW

# COLLEGE OF ENGINEERING, PUNE Accredited with 'A' Grade by NAAC

Department of Electrical Engineering

Date :-07/02/2019

Sub	PS-II	Faculty	BB	B			Unit	TestI	
Roll	Name of Oak	Atten		Mar	kg -	1-			
No.	Name of Student	dance		ebla					Total
TE 01	AAFAQ AHMAD BHAT	-Amba	<del></del>	04			-		
TE 02	AMIT KUMAR GUPTA	-11776A		- AB-					
TE 03	ANMULWAD SHYAM SAMBHAJI	र्कान्द		05					
TE 04	ARMAL VISHAL SUDHAKAR	AH.	-	06					
	AWASTHI AKSHAY DHANANJAY	THE THE		06					
-	BARI SHUBHAM VASUDEV	Dur		04					
	BHALKARE CHETAN NARAYAN	Class	4. 2	05					
-	BODKE PRANAV SANJAY	Book	* "	06					
-	BUDDAWAR VAIBHAV NARSIMLU	time		07					
	CHOUGULE KUNAL SUJEET	adal		04					
	DAVANE MONIKA ANKUSH	abriles		07					
-	DESHMANE MEGHA ABASO	Morring.		05					
	GAME KARTIK RAJENDRA	Wame		08					
	GAURI KULKARNI	JAUR 3	-	05					
-	GAVHANE SHUBHAM KISAN	-AB-		-AB-					
-	HUKKERIKAR SIDDHI SANJEEV	(804)	, PT	06					
TE 17	JADHAV CHETAN NANASAHEB	chdan	- 11	05					
TE 18	JOSHI PRADNYA ANIL	Dady1-		05					
TE 19	KAGDE PALLAVI BHARAT	ekinde		07					
TE 20	KAPADANE AASHISH MUKUNDRAO	Aus		08					
TE 21	KAWALE CHHAYENDRA VISHNU	Tolago	- ,	06					
TE 22	KULKARNI MRUNAL DATTATRAYA	-#	•	08					
TE 23	MALI SAMEEKSHA UMESH	Snah		07					
E 24	MARATHE YASH UDAY	gael		06					
TE 25	MESHRAM RAHUL DAMODHAR	Pahul"	,	04					
TE 26	MORKHANDE AVINASH SANGRAM	Adude		06					
TE 27	NAIKAWADI NIKHIL PRADIP	<i>poileiy</i>	n Pole	06					
TE 28	NANAWARE ASHUTOSH GOVIND		$\mathbb{C}_{\mathbb{C}^{n-1}}$	05					
TE 29	NARWADE MANISHA DEVRAO	Market		06					
TE 30	NAYKAWDI YOGESH ASHOK	Your		07					
TE 31	NEMADE RISHIKESH RAJENDRA	Gara		08					
TE 32	PADOLE AISHWARYA SHIVANANDRAO	padule		07					
TE 33	PADOLE VAISHNAVI NILKANTH	mode		08					
TE 34	PALASH SANJAY BOBADE	3	*	04					
TE 35	PATIL PRITI VIJAY	Onti-		06					
	PATIL ROHAN GOPAL	Toha Statis	and y	05					
TE 37	PATIL URVESH SUBHASH	aluft		06					
-	PIMPARKAR POOJA HEMRAJ	posie		05					
-	PRADEEP BABU KUTE	Acute	المساورا	07					
TE 40	PRIYA SANJAY MORE	BMOEL		07					

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TE 41	RAIPATREWAR AKANKSHA NITINRAO	Atonton	- '	07					A CONTRACTOR
TE 42	RAJE PRAJAKTA DHANANJAY	PORie		06		and the second s	age of the same		
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TE 51	SHIRKE ASHISH GAJANAN	Bill		06		THE RESERVE AND DESCRIPTIONS			The state of the s
TE 52	SHIVAM R CHAUBEY	1		04		The state of the s	The state of the s		ACTOR ANALOG CO. CALL
TE 53	SUTHAR DEEPAK JIVARAM	Done.		07					
TE 54	THAKARE KANCHAN RAVINDRA	Finden		06					
TE 55	WAGHMARE MRUNALI BHAGVAN	Waghmare		07					
TE 56	WAGHMARE SHAKUNTALA SHIVAJIRAC	Shafunley		08					sensor water place

Total No. of Students in class	:	56	
present	;	54	
absent		02	
passed	:	54	
% of Passing	;	100	1.

HOD

Course Coordinator

# College Of Engineering, Pune Accredited with 'A' Grade by NAAC

Department of E&TC

A.Y. 2018-19	Unit Test	SEM-II	
Class: T.E.	Course: Advanced Processor	Date:31/01/19	
CO:1 Time: 30 Minutes	Unit No. :I	Maximum Ma	arks: 10
	N.B.:- All questions are compulsory		
Q.1 (a) Discuss Program	mers Model of ARM processor with the help	of neat diagram.	[2]
Q.1 (b) State the point of	view of data flow model of ARM processor.		[3]
Q.2 (a) What is your idea	a for RISC design philosophy in ARM?		[2]

Q.2 (b) State in your own words architecture of TIVA processor.

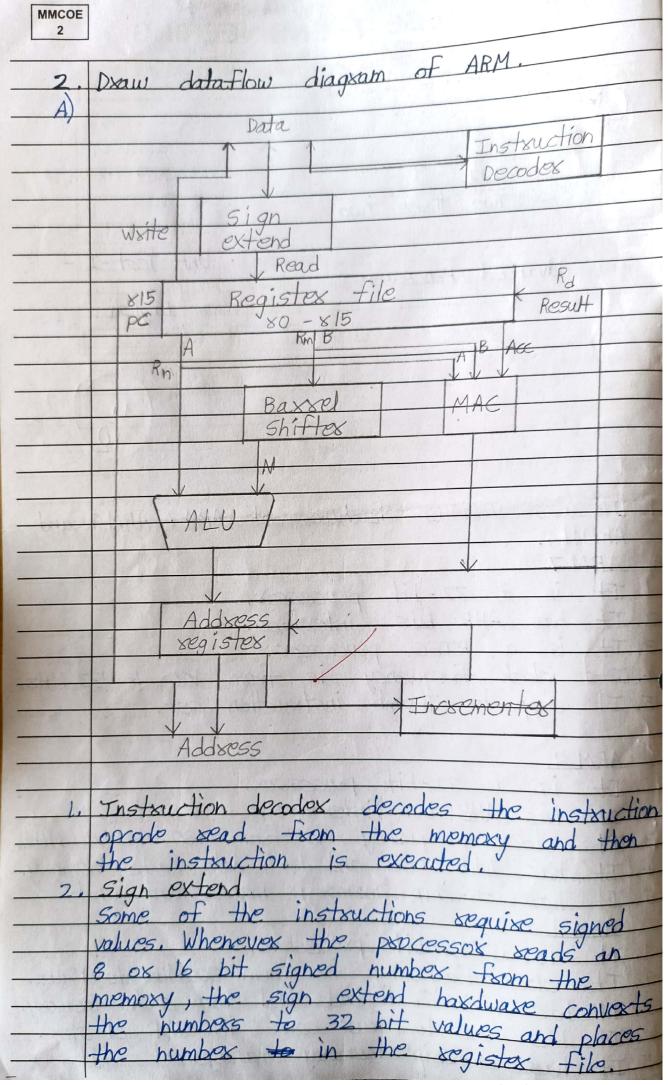
[3]



# Marathwada Mitra Mandal's COLLEGE OF ENGINEERING Accredited with 'A' Grade by NAAC

S. No. 18, Plot No. 5/3, Near Vandevi Temple, Karvenagar, Pune - 52. Ph.: (020) 25121363 / 93718 36543 | E-mail : mmcoe@mmcoe.edu.in

		/erified & all the entries found correct Signature, Date & Name of Invigilator	
	F	Roll No.: (In figures ): 2.32 Centre :	
	F	Roll No.: (In words): Two There Two	
	-	Day & Date: Examination: Examination:	
	-	Subject: Advanced Processors Section:  Medium of Answer: English  Medium of Answer: English	
	3 3	Main Ans. Book + No. of Supplements : Total :	
	-	7 8 9 10 11 12 Total	
1	-	Question No. 1 2 3 4 3 0 Marks	
3	L	Use of Coloured pencil or ink is strictly prohibited except in case of diagrams & sketches.	
		(Write on both sides & start writing on this page.)	
		· FI - CAPM7 APM9 am	1
	1.	Discuss vaxious footuses of ARM7, ARM9 and	
-	2	ARM 7	10:
	1.	It is a 32-bit pxocessox,	
	2.	It has AHB bus intextage.	
	3.	It is a RISC PROCESSON.  Its clock frequency is from 100 to 133 MH	Iz.
7	5.	It supports Thumb instruction set.	
-			
0,7	7	ARM 9	
	1.	It has AHB bus intextage.	
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1	7.	It has 4kb gode and 4kb data cache memos	4.
	5.	It has on-thip memoxy management unit.	
		ARM II COMMISSION CONTRACTOR OF THE CONTRACTOR O	
	1.	It is a 32-bit processor.	
-	7	Its clock frequency is from 800MHz to 19Hz It has 4 to 64 kb code and data cache memore It has one to four cores in SMP cluster.	11
4		It has one to foux coses in SMP cluster	4
	5.	It has on-chip memory management unit.	
STOP AT	112	V	



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4.	Baxxel shiftex
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	value to memory location.
9.	Rm, Rn axe souxce registers and Ry is destination register x 15 is program counter.
	destination register, x 15 is program countex.
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3.	Elabosote in details a 7-TDMI wish ARM
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A	ARM {x} {y} {z} {T} {D} {M} {T} {E} {J} {F} {S}
	x: ARM family
0	y: Memory management / protection unit
0,	z: Cache
	T: Thumb instruction set
	D: Debug via JTAG intextace
	M: Multipliex Unit
	I: Embedded ICE macrocell
	E: Extended
	J: Jazelle it executes java byte
	F: Vectox floating point unit
	5: Synthesizable vexsion
	Scanned with CamScanner

# College Of Engineering, Pune

Accredited with 'A' Grade by NAAC

# Department of Mechanical Engineering

A.Y. 2018-19

**Time: 30 Minutes** 

**Unit Test-I** 

**SEM-II** 

Class: T.E.

Course: DME-II

Date: 15/02/19

Unit No: 1

Maximum Marks: 10

**NOTE:** All questions are compulsory

Q.1 (a) State and derive Lewis Beam Strength equation.

[2] CO1 L1

Q.1 (b)It is desired to determine the proportions of a spur gear drive to transmit 8kW from a shaft rotating at 1200rpm to a low speed shaft, with a reduction of 3:1. Assume that the teeth are  $20^{\circ}$  full depth involute, with 24 teeth on pinion. The pinion is to be of 40C8(Sut=660 MPa) Steel and gear of 30C8 (Sut=540 MPa) steel. Assume that the starting torque is 130 percent of rated torque.FOS=2, Cv=6/6+v

Q.1 (C) Explain different modes of gear failures

[3] CO | L2

[5] COI L3

[3] (0 | L2

# COLLEGE OF ENGINEERING, PUNE

Accredited with 'A' Grade by NAAC
A. Y. 2018-19 Sem: II

Unit Test Attendance Sheet

Department : Course Name:

Course Co-ordinator:

Mechanical Engineering

Design of Machine Elements-II

Class:

TE-A

L

Unit No.:

Date : Time :

Sr. No.	Roll No.	Name of Student	Sign of Student	Marks obtained ( Out of 10)	Remarks
1	TMA101	ABHINEEL SANJAY KRUPAN	amount	04	
2	TMA102	NEHA SANJAY AWATE	Neha	07	
3		BACHHAV TUSHAR NITIN	tool	08	
4	TMA103	APEKSHA ASHOK BADERAO	Dodomo	07	
	TMA104		layale	05	
5	TMA105	RUSHIKESH SUBHASH BANSODE	SABendire	05	
6	TMA106	SAHIL ANKUSH BENDURE	Mullon	09	
7	TMA107	PRIYANKA RAHUL BHALERAO	Prosede	06	
8	TMA108	ANIKET SANJAY BHOSALE	STO	04	
9	TMA109	SANKET MADHAV BHUJANG	Alhara	06	
10	TMA110	ATHARVA SHASHIKANT BORKAR	Portar.	Ass	
11	TMA111	AMEYA SANJAY BULAKH	+	ASS	
12	TMA113	SHAILENDRA SUBHASH CHOPADE		65	
13	TMA114	ASHISH RAJESH DABHADE	astr	05	
14	TMA115	AMOGH VISHWAS DATAR	THE STATE OF	06	
15	TMA116	AKSHAYKUMAR H. DESHMUKH	CHIHOL		
16	TMA117	CHINMAY SANJAY DESHMUKH		04	
17	TMA118	SHIVANI DEEPAK DESHMUKH	Amanto	-	
18	TMA119	SHRIRANG ANILRAO DESHMUKH	521	ASC	
19	TMA120	GAUTAMI HEMANT DESHPANDE	OFF. HILL	04	
20	TMA121	ADITYA MUKUL DEWASTHALE	7		
21	TMA122	MAHESH ANANTA DIXIT	man.	07	
22	TMA123	ONKAR SHAM GAJGHATE	(44KD	06	
23	TMA124	SAURABH SANJAY GANDHI	huralbh	08	
24	TMA125	PRAVIN RAMCHANDRA GHODAKE	Praving.	07	
25	TMA126	SAGAR BHAUSAHEB GHUTE	Chile.	07	
26	TMA128	ROHIT HIMANSHU GUPTE	20	04	
THE RESERVE THE PERSON NAMED IN	TMA133	NUPOOR MANOJ INGOLIKAR	Mayous	07	
27) 28	TMA135	ATHARV SANJAY JAGTAP	Julio	05	
-	TMA136	SANKET PRAKASH KADAM	Geilon	07	
29	TMA138	INDRAJEET UDAY NIKAM	VNI Leve	04	
30	TMA139	ROHAN SANJAY KATORE	Fator	04 33	
31	TMA141	CHINMAY MUKUND KULKARNI	- Colyel	05	11.71
32	TMA142	HARSHAL MANGESH KULKARNI		04	
33	THE CASE STORY	SHREYES PRASHANT MAMIDWAR	Sprend	04	
34	TMA144	ADITYA MAHESH MANE	Miryal	04	
35	TMA145	AKSHAY SHIVAN MANE	100	05	
36	TMA146	SHRIDHAR KRISHNA MYAKAL	(D) Suchal	24	
37	TMA147	AKASH MANOJ SHIRODKAR	Char	0	
38	TMA151	AMEY MILIND KULKARNI	AVYX	7	
39	TMA152		11:	Az	
40	TMA153	SHREYAS SUYOG NAIK		(18)	

Sr. No.	Roll No.	Name of Student	Sign of Student	Marks obtained ( Out of 10)	Remarks
41	TMA154	AKSHAY RAHUL GADIA	Illul	107	
42	TMA155	SANDESH RAMDAS GAJARE	130		
43	TMA156	PRATIK ANIL DIXIT	Statule.	08	
44	TMA157	NEHA PRAKASH CHAVAN	patile	00	
45	TMA158	HIMANI MAHESH LIMAYE	maye	05	
46	TMA159	VAIBHAV ANIL KOKARE	rear	26	
47	TMA160	SUKANYA SUDHIR BHALWANKAR		- 05	
48	TMA161	BHUSHAN SHRIKANT JOSHI	Ricilia	06	
49	TMA162	POONAM DAGADU A Pchundakar	-	04	
50	TMA163	SANKET VIJAY KAMBLE	Francis.	04	
51	TMA164	PRANALI NARENDRA INGULE	Sorte	- 85	
52	TMA165	UZAIR MAJEED GAZI	apale	04	
53	TMA166	AKSHAY SURESH MANE		05	
54	TMA167	RITUJA SAMBHAJI MOHITE	The least of the l	0.7	
55	TMA168	DIPAK SHAHADEV MISAL	Broute	07	
56	TMA169	RUTIKA RAHUL KADAM	COUR)	94	
57	TMA170	SWAPNITA MUKUNDA TOKE	(H)	150	
58	TMA171	ADITYA NITIN PATIL	2000	(83)	
59	TMA172	KUNAL BALKRISHNA MARATHE	-	A55	
60	TMA173	SHRINIKETAN MOHAN KUMAWAT	11	ASS	
61	TMA174	SAURABH SUNIL MAKAR	a dire	05	
62	TMA175	ANEESH RAJESH GUNDU	0) 111	05	
63	TMA176	VIKRAM HINGANE	904	05	
64	TMA177	NAZERPASHA N. SAYYAD	-	05	
65	TMA178	YOGESH INGOLE			
66	TMA179	RUTUJA RAJENDRA CHIKHALE			
67	TMA180	PRATIK SURESH AHIRE			
	TMA181	SWAPNIL RANGRAO BARGE	· ·	3 4	
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.76					
Total nun	iber of studer	nts in class: 68			
. otal nun	inci oi studei	ous present: 📂/			

Sign of Course Coordinator

Total number of students present: 56
Total number of students absent:
Total number of students passed:
Percentage of passing: 98.21

Solution of DME-IL Unit test - I

T

Pt Pr

At Section X-X Mb=Ptxh I= bt3/12

The bending stresses are give

enging the terms

Rearranging the terms  $Pt = b \cdot 6b \cdot \left(\frac{t^2}{6h}\right)$ 

Multiplying the numerator of denominator of right hand side by m

Pt =  $mb6b\left(\frac{t^2}{6hm}\right)$ 

Defining a factor Y,

 $\gamma = \left(\frac{t^2}{6hm}\right)$ 

the eqn is a rewritten as 
[Pt = m.b.6b.Y.]

Q1(b) Given- P=8KW, np=1200 rpm, i=3:1, Zp=24, (Sut)p=660 MPa, (Sut)g=540 MPa, Cs=1-3, Fos=2

Sut p=660 Mra, (Sud g=3 40 Mra, Cs=1-3, Fos=2 Cv=6/6+V Soln-6bp=220 MPa, 6bg=180 MPa,

Yp=0.484-2.87 = 0.3614.

[= \frac{79}{2p} = \frac{7}{2} \frac{7}{2} = 72.

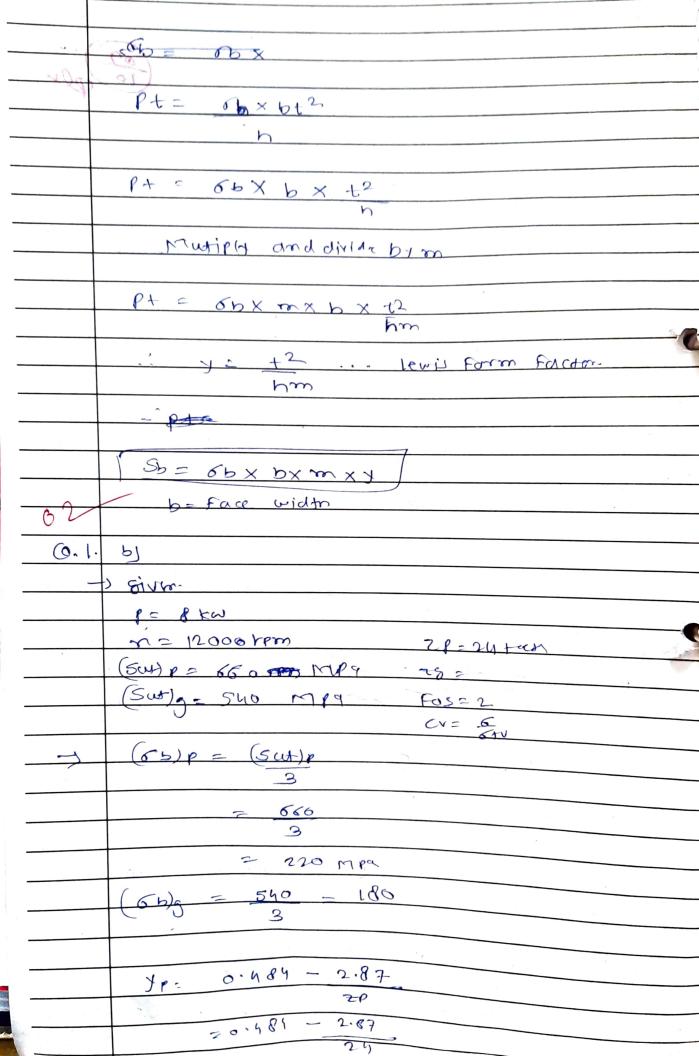
As 6bp. Yp < 6bg Yg pinion is weaker in bending as compared to gear.

Beam strength of Spar pinion tooth -
Sb = 6bp.b.m.yp
= 220 × 10M × m × 0.3614
Sb = 795 m ²
Effective load, Peff = Cs.Pt
Pt = $\frac{P}{V}$ , $V = \frac{TTdpnp}{60} = 1.507 m$
$Pt = \frac{5308}{m},$
$GV = \frac{6}{6+V} = \frac{6}{6+1.507}m$
Peff = 6901·128 + 1733·33 m
$\mathcal{M}_{\mathcal{A}}$
For safety against bending failure
Sb: Fosx Peff
$m = 3.133$ $m \approx 4.66 mm$
dp: m. Zp = 96 mm, dg = 288 mm, b=40 mm
of James James
11 - 1. 3 / M1 = 3 = 0 = mm).
Q. ICC) Different modes of gear toothfailures
@ Corrosive wear
@ Onitial pitting
Sconing.



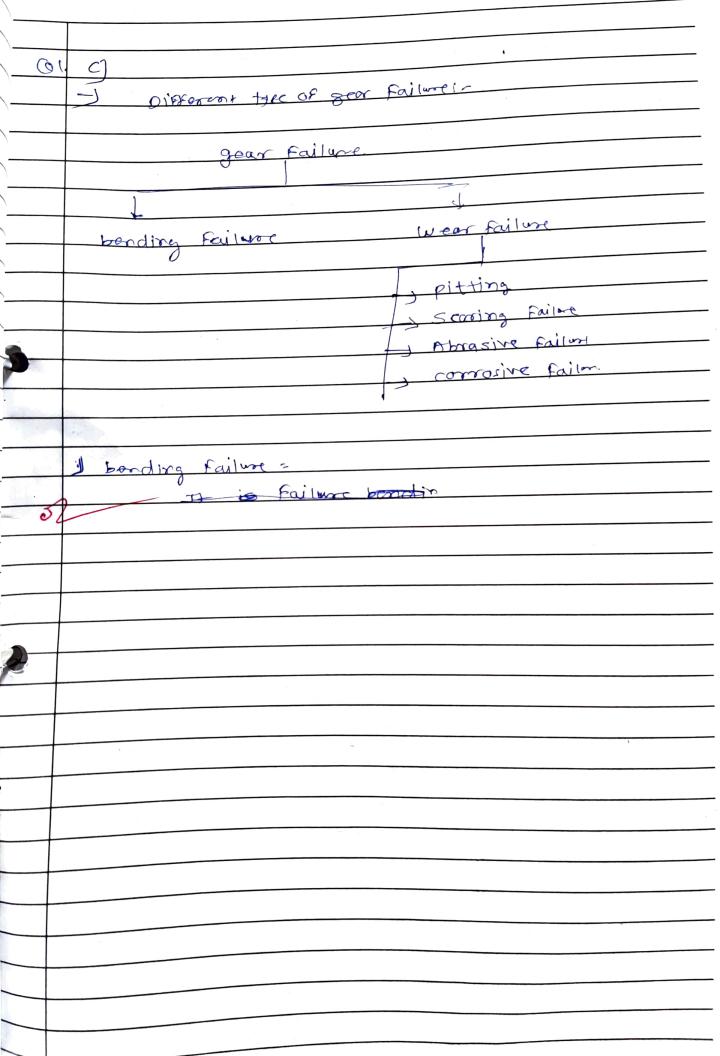
# Marathwada Mitra Mandai's COLLEGE OF ENGINEERING Accredited with 'A' Grade by NAAC S. No. 48, Plat No. 5/3, Near Vendeyi Temple, Karvenagar, Pune - 52.

<u> </u>	'M'		Ph.: (0	020) 2	51213	. 5/3, N 63 / 93	1ear V 1718 30	andevi 6543   1	Temple E-mail	: mmc	oe@r	mcoe.	edu.in		1
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(	Course / Paper N	o. :							Me	edium (		_	Eng	740	
	/lain Ans. Book +	No. o	f Supp	lemen	ts :						To	tal :			
(	Question No.	1	2	3	4	5	6	7	8	9	10	11	12	Total	
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6				P+	$\times h$	×	ナノ	2			P+	×h	× t	5	
					6	t3						b-L			



	Je= 0.3644
,	
	4. The material used for gears and pinion
	Is some. So that, pinion is weaker
	in bending.
	$\frac{1}{6b} = \frac{1}{6}$
	Sb= (6b) x b x m x (1)
	= 220 × 10m ×m × 0.3649
	= 801.4700 2 m2 Mmm N/1 mmm2
	(10), 47042.11
	We That we
	V= Tde no.
1	= TIX 24×m X 1200.
	60
	= 1507.96 m m/mm/s
	= 1507 m/m m/s
	pesse cs x ex
	Cv
	1.3 X = 1
	CV= 6 = 6
	6tV 6+ 1.507 m
	0.50
	$p+ = \frac{8 \times 103}{1.507m} = 5.305$
<i>-</i>	
<u> </u>	Petts 1.3 x 5.305)
<i></i>	8
	6+1.507m
	= 1.3 × 5.3051 × (6+ 1-507m)
//	6m

MMCOE Perr = 6.89663 + 1.7322 Sb = FOS X peff 801.700 = m2 = 2 × 6.89663 + 1.732 400.851 m² = 6.89663 + 1.732 m=93.13 ×4 · dp= on zp = 24X5 = 96 mm 6 = 6 m = (0×4 =40 mm Sh= 801. 702-X (6)2 = 12827.232 NImm 1 = 1:5079 x(422 = 24.1264 m/s 1+= P -8×103 1.5039X 4 = 13266.9983 rech =





### **COLLEGE OF ENGINEERING**

S.No.18, Plot No.5/3, Karvenagar, Pune-411 052

Accredited with 'A' Grade by NAAC

Accredited by NBA (Electrical and Mechanical Engg. Department)

Recipient of 'Best College Award 2019' of SPPU

Recognized under section 2(f) and 12B of UGC Act 1956

# **Internal Assessment**

**Practical Continuous Assessment Sheet** 

## Marathwada Mitra Mandal's COLLEGE OF ENGINEERING, PUNE

Accredited with 'A' Grade by NAAC

# Practical Continuous Assessment Sheet- 2018-19(Sem - II)

04.	Class	,	SE-II	Date	07/01/19	Time	2.30
COMPUTER	Sub ADSL		Faculty	Anita Shinde	Batch	A	
Name of Student	Cumulative Marks ( )	Expt_No	Attd (sign)	Preparation-	Participation in Conduction of Lab (4)	Post expt Quiz/certificath on(2)	Total (10)
AGRAWAL RITESH RAKESH	0	1	(Majaun)	2	1	J	7
	0	-	_	_		-	_
CHAUDHARI NISHANT PRAMOD	0	-2		_	-	_	-
CHAVAN JYO H RAM	0	١	Mari	2	1	1	6
DAPHAL ANAGHA DATTATRAYA	0	1	North	2	2	1	7
DEO SIDDHESH GUNJAN	0	- 1	Sea.	2	2	1	7
DESHPANDE APURV SHRIKANT	0	1	HAT?	2	4	2	10
	0	1	Per:	2	2	2	8
DHIVAR SANKET SUNIL	0	1	Strike	2	1	1	6
DIBYO	0	1	_			- ,	_
GADEKAR PRANAV VISHNU	0	J	(P)	2	3	1	8
GANDHE ARNAV SANTOSH	0		AS-bandhe	2	2_	1	7
GAWHANE ATUL	0	-	-	_		_	~
GOLE VARUN MANOJ	0		reside	2	4	ı	9
JADHAV PRATIK UMESII	0 11	0-	_	-	_	-	-
JAGTAP SURAJ BHANUDAS	0	-	1	-		-	-
KARTHIK SHRINIKETAN	0	7.1	#	2	2	2	8
KEJKAR SHANTANU RAJKUMAR	0	·-	_	_	1	_	_
KESHARWANI RITIK MANOJ	0	-	~	-	<del>-</del> a	_	_
KHESE SAKSHI AJIT	0	-	-	_	_	_	1-
KULKARNI SAMRUDDHI C	ъ	-			_	1111	_
KULKARNI SHALAKA DEEPAK	0	1	akulkain	2	3	1	8
	Name of Student  AGRAWAL RITESH RAKESH BAHIRE DURVESH KISHOR CHAUDHARI NISHANT PRAMOD CHAVAN JYOTI RAM DAPHAL ANAGHA DATTATRAYA DEO SIDDHESH GUNJAN DESHPANDE APURV SHRIKANT DESHPANDE PRADYUMNA GIRISH DHIVAR SANKET SUNIL DIBYO GADLKAR PRANAV VISHNU GANDHE ARNAV SANTOSH GAWHANE ATUL GOLE VARUN MANOJ JADHAV PRATIK UMENIT JAGTAP SURAJ BHANUDAS KARTHIK SHRINIKETAN KEJKAR SHANTANU RAJKUMAR KESHARWANI RITIK MANOJ KHESE SAKSHI AJIT	Name of Student  Name of Student  AGRAWAL RITESH RAKESH  BAHIRE DURVESH KISHOR  CHAUDHARI NISHANI PRAMOD  CHAVAN JYOH RAM  DAPHAL ANAGHA DATTATRAYA  DESHPANDE APURV SHRIKANT  DESHPANDE PRADYUMNA GIRISH  DHIVAR SANKET SUNIL  DIBYO  GADEKAR PRANAV VISHNU  GANDHE ARNAV SANIOSH  GAWHANE ATUL  GOLE VARUN MANOJ  JAGTAP SURAJ BHANUDAS  KARTHIK SHRINIKETAN  O  KESHARWANI RITIK MANOJ  O  KILESE SAKSHI AJIT  O  CUMULATIVE MARCOL  CUMULATIVE MANOJ  O  CHAVAN JYOH RAM  O  CHAVAN JYOH  CHAVAN JYOH  O  CHAVAN JYOH	Name of Student  Name of Student  AGRAWAL RITESH RAKESH  BAHIRE DURVESH KISHOR  CHAVAN JYOTERAM  DAPHAL ANAGHA DATTATRAYA  DEO SIDDHESH GUNJAN  DESHPANDE APURV SHRIKANT  DESHPANDE PRADYUMNA GIRISH  DHIVAR SANKET SUNIL  DIBYO  GADEKAR PRANAV VISHNU  GANDHE ARNAV SANTOSH  GAWHANE ATUL  GOLE VARUN MANOJ  JADHAV PRATIK UMENII  JAGTAP SURAJ BHANUDAS  O  KARTHIK SHRINIKETAN  O  KESHARWANI RITIK MANOJ  O  KIJESE SAKSHI AJIT  O  CUMULATIVA NA MARINI DA ARTER ANA MARINI BANOJ  O  KIJESE SAKSHI AJIT  O  CUMULATIVA NA  O  L  CUMULATIVA  O  O  I  CUMULATIVA  O  I  CUMULATIVA  O  I  CUMULATIVA  O  I  CHAVAN JYOTERAM  O  I  CH	Name of Student  Name of Student  Cumulative Marks ()  Attd (sign) (2)  AGRAWAL RITESH RAKESH  DAHIRE DURVESH KISHOR  CHAUDHARI NISHANT PRAMOD  CHAUDHARI NISHANT PRAMOD  DAPHAL ANAGHA DATTATRAYA  DESHPANDE GUNJAN  DESHPANDE PRADYUMNA GIRISH  DHIVAR SANKET SUNIL  DIBYO  GADLKAR PRANAV VISHNU  GANDHE ARNAV SANTOSH  GAWHANE ATUL  GOLT VARUN MANOJ  JADHAV PRATIK UMENH  JAGTAP SURAJ BHANUDAS  KARTHIK SHRINIKETAN  KEJKAR SHANTANU RAJKUMAR  KESHARWANI RITIK MANOJ  KILKARNI SAMRUDDHIC  CUmulative Marks  Lxpt No  Attd (sign)  (2)  Attd (sign)  Attd (sign)  (2)  Attd (sign)  (2)  Attd (sign)  (2)  Attd (sign)  Attd (sign)  (2)  Attd (sign)  (Attd (	Name of Student  Name of Student  Cumulative Marks ()  Expt No Attd (sign) Preparation—(2)  AGRAWAL RITESH RAKESH  O	Name of Student  Name of Student  Cumulative Marks ( )  Cumulative Marks ( )  Lapt No Attd (sign) (2)  Preparation Conduction of Lab (4)  Add (sign)  Add (sign)  Preparation Conduction of Lab (4)  Add (sign)  Preparation Conduction of Lab (4)  Add (sign)  Attd (sign)  Preparation Conduction of Lab (4)  Add (sign)  Preparation Conduction of Lab (4)  Add (sign)  Preparation Conduction of Lab (4)  Add (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Add (sign)  Preparation Conduction of Lab (4)  Add (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Lab (4)  Preparation Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Paratic paration Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Attd (sign)  Attd (sign)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Attd (sign)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)  Attd (sign)  Preparation Conduction of Lab (4)  Attd (sign)   Name of Student  Name of Student  Cumulative Marks (1)  Adtd (sign) Preparation (2)  AGRAWAL RITESH RAKESH  O	

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KULKARNI SHUBHANKAR S

**Course Coordinator** 



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# Marathwada Mitra Mandal's COLLEGE OF ENGINEERING, PUNE Accredited with 'A' Grade by NAAC

Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week	04	Class	SE-II	Date	10/1/19	Time	12 10-
No. Departm	COMPUTER	Sub	ADSL	Faculty	Anita Shinde	Batch	2·38
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ent								
Roll No.	Name of Student	Cumulative Marks ( ð	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESTERAKESTE	07	1	ordramy	2	2	2	8
SC203	BAHIRI DÜRVESH KISHOR	00	1	Bedle	<b>9</b> _v	2	2	90
SC204	CHAUDHARI NISHANT PRAMOD	00	1	Brongrant	1	2	1	6
SC205	CHAVAN JYOTI RAM	06	1	Tyn.	1	2		6
SC207	DAPHAL ANAGHA DATTATRAYA	07	1	Adopted	02	2	1	07
SC208	DEO SIDDHESH GUNJAN	07	-1	900	2	2	2	8
SC209	DESHPANDE APURV SHRIKANT	10	1	加	2	2	2	Øg
SC210	DESHPANDE PRADYUMNA GIRISH	08	1	Oo:	2	2	2_	08
SC211	DHIVAR SANKLI SUNII	06	0-	-	_	_	_	_
SC212	DIBYO	00	1	Dibyo	02_	02	01	07
SC213	GADEKAR PRANAV VISHNU	08	-	14	_	_	_	_
SC215	GANDHE ARNAV SANTOSH	07	1	AS frandhe	2	2	2	8
SC216	GAWHANE ATUL	00	-	-	~	_	_	_
SC217	GOLE VARUN MANOJ	09	- I	Casun	2	2	2	8
SC219	JADHAV PRATIK UMESH	00	1	Paid	1	2	1	6
SC221	JAGTAP SURAJ BHANUDAS	00	-	-	-		_	_
SC222	KARTHIK SHRINIKETAN	08	1	1	2	2	2	8
SC223	KEJKAR SHANTANU RAJKUMAR	00	-	-	-	_	_	_
SC224	KESHARWANI RITIK MANOJ	00	1	(P)V/	2_	2_	2	8
SC225	KHESE SAKSHI AJIT	0.0	1	Sheri	1	1	1	5
SC226	KULKARNI SAMRUDDHI C	00	1	dek.	2	2	1	7
SC227 SC228	KULKARNI SHALAKA DELPAK	૦૬		Skulkar	2	2		7
JC220	KULKARNI SHUBHANKAR S	07	_	-	-			_

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Course Coordinator



#### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	0 <b>.6</b>	Class	SE-11	Date	24/1/19	Time	1230-
epartm ent	COMPUTER	Sub	ADS Lab	Faculty	Anta S	Batch	А

Roll No.	Name of Student	Cumulative Marks (200)	Expt No	Attd (sign)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	15	2	PARQUED.	2	2-	l	7
SC203	BAHIRE DURVESH KISHOR	08	2	Fred .	2	2	2	8
SC204	CHAUDHARI NISHANT PRAMOD	06	(,,,	-	-	-	_	-
SC205	CHAVAN JYOTI RAM	12	2-	Thy.	2	2	( )	7
SC207	DAPHAL ANAGHA DATTATRAYA	14	2-	MAN	2_	2		7
SC208	DEO SIDDHESH GUNJAN	15	2- `	900	2	2	2	8
SC209	DESHPANDE APURV SHRIKANT	19	2.	100	2_	2	2	8
SC210	DESHPANDE PRADYUMNA GIRISH	16	2	Por.	2	2-	l	7
SC211	DHIVAR SANKET SUNIL	06	2	Stra.	2	2	1	7
SC212	DIBYO	07	,	-	-	_	_	~
SC213	GADEKAR PRANAV VISHNU	08	2	02	2	2	X.	8
SC215	GANDHE ARNAV SANTOSH	15	2	Astrandhe	2	2	2_	8
SC216	GAWHANE ATUL	00	-	-	_	_	_	
SC217	GOLE VARUN MANOJ	17	2	Qarun	2_	2	1	7
SC219	JADHAV PRATIK UMESH	06	2	Ball	2	2_	l	7
SC221	JAGTAP SURAJ BHANUDAS	00	2	Sul	2_	2_	1	7
SC222	2 KARTHIK SHRINIKETAN	16	2	J.	2	2	1	7
SC22.	KEJKAR SHANTANU RAJKUMA	R 00	1-	-	_	-		-
SC22	4 KESHARWANI RITIK MANOJ	08		-	-	-	-	_
SC22	5 KHESE SAKSHI AJIT	05	2	Shey	2	2_	(	7
SC22	6 KULKARNI SAMRUDDHI C	67	1.2.	000	. 2	2_	2	8
SC22		15	2_	· WKULKON		2_	2_	8
SC22	28 KULKARNI SHUBHANKAR S	0.7		-	1	-	_	

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### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	07	Class	SE-II	Date	28/1/19	Time 12.30.
Departm	COMPUTER	Sub	Abs Leb	Faculty	Anita s	Batch A

Roll No.	Name of Student	Cumulative Marks ()	Expt No	(2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	22	03	Many	2-	2-	1	7
SC203	BAHIRE DURVESH KISHOR	16	3	TRAL	2	2	2_	8
SC204	CHAUDHARI NISHANI PRAMOD	06	3	Agration	2	2	1	7
SC205	CHAVAN JYOTI RAM	19.	-	_	-	-	-	<i>'</i>
SC207	DAPHAL ANAGHA DATTATRAYA	21	3	Mar	2_	2	2	3
SC208	DEO SIDDHESH GUNJAN	23	3	9500.	2-	2_	2	8
SC209	DESHPANDE APURV SHRIKANT	29	3	TIED.	2	2	3	9
SC210	DESHPANDE PRADYUMNA GIRISH	25	3	(P)	2	2_	2	
SC211	DHIVAR SANKET SUNIL	13	3	A Mar	2	2	1	7
SC212	DIBYO	07	3	Pily o	2	2_	ì	7
SC213	GADEKAR PRANAV VISHNU	16	3	(a)	2_	2_	2_	8
SC215	GANDHE ARNAV SANTOSH	23	3	AS-bandhe	2_	2_	2	8
SC216	GAWHANE ATUL	00		-	-	-		0
SC217	GOLE VARUN MANOJ	24	3	Original.	2	2_	1	7
SC219	JADHAV PRATIK UMESH	13	-	) <b>-</b>	-	_	-	
SC221	JAGTAP SURAJ BHANUDAS	07	3	Dur	2_	2	2_	8
	KARTHIK SHRINIKETAN	23	3	#	2	2	2_	8
SC223	KEJKAR SHANTANU RAJKUMAR	00	3	Seile-	2	2	1	7
SC224	KESHARWANI RITIK MANOJ	08	-	-		_		4
SC225	KHESE SAKSHI AJIT	12_	3	eney	2	2_	-	7
SC226	KULKARNI SAMRUDDHI C	15	3	N/E	2	2	2_	8
SC227 SC228	KULKARNI SHALAKA DEEPAK	23	3	gkulkasni	2_	2	2	8
30.220	KULKARNI SHUBHANKAR S	07	_	-	11 -			-

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### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	07	Class	SE-II	Date	31/1/19	Time	1230-
Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anity S	Batch	2 30 A

Roll No	. Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	29	3	PHOLONA	2	<b>E</b> 21	1	6
SC203	BAHIRE DURVESH KISHOR	24	3	Fril	2	2	2	8
SC204	CHAUDHARI NISHANT PRAMOD	13	-	_	-	_		-,-
SC205	CHAVAN JYOTI RAM	19 0	3	then.	2	2	1	7.
SC207	DAPHAL ANAGHA DATTATRAYA	29	_	-	-			<del>-</del>
SC208	DEO SIDDHESH GUNJAN	31	3	920	- 2	2	2	8
SC209	DESHPANDE APURV SHRIKANT	36	3	Ago	2	2	3	9
SC210	DESHPANDE PRADYUMNA GIRISH	3.3	-	-	_	_		
SC211	DHIVAR SANKET SUNIL	20	3	Aller	2	2	1	7
SC212	DIBYO	14	3	Oibye	2	2	1	7
SC213	GADEKAR PRANAV VISHNU	24	-	- WA	_			_/
SC215	GANDHE ARNAV SANTOSH	31	3	Al-Gandhe	2	2	1	
SC216	GAWHANE ATUL	00		Hul	2	1	$\rightarrow$	7
SC217	GOLE VARUN MANOJ	3	-	-	_			_
SC219	JADHAV PRATIK UMESH	13	3	Batin	2	2	1	7
SC221	JAGTAP SURAJ BHANUDAS	15	-	-	_	_		
SC222	KARTHIK SHRINIKETAN	31	3	E	2	2	2	8
iC223	KEJKAR SHANTANU RAJKUMAR	٥7	3	Kilee.	2	2	<del>-</del> -	7
SC224	KESHARWANI RITIK MANOJ	08	-	-	-	_		
SC225	KHESE SAKSHI AJIT	19	3	these	2_	2-	1	7
SC226	KULKARNI SAMRUDDHI C	23	-	-	_			7
	KULKARNI SHALAKA DEEPAK	31	-	_	_	_		_
	KULKARNI SHUBHANKAR S	07	3	Spe	2_	2		7

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### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week	08	Class	SE-II	Date	4/2/19	Time	2.30
No. Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anita s.	Batch	A

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	35	4	(Ageaus)	2_	2_	1	7
SC203	BAHIRE DURVESH KISHOR	32-	4	Bellei	2	2	2_	8
SC204	CHAUDHARI NISHANT PRAMOD	13	-	-	_	-	1-	-
SC205	CHAVAN JYOTI RAM	26	4	Tyn.	2	2_		1
SC207	DAPHAL ANAGHA DATTATRAYA	29	4	Adal	2_	2	2_	8
SC208	DEO SIDDHESH GUNJAN	39	-	-	-	-	-	-
SC209	DESHPANDE APURV SHRIKANT	45	4	<b>★</b>	2	3	2	.9
SC210	DESHPANDE PRADYUMNA GIRISH	33	4	Or.	2	2	2	8
SC211	DHIVAR SANKET SUNIL	27	4	gran.	2	2	1	7
SC212	DIBYO	2]	-2		-	_	-	_
SC213	GADEKAR PRANAV VISHNU	24	4	(P)	2	2	2-	8
SC215	GANDHE ARNAV SANTOSH	38	4	AS-from the	2	2	2	8
SC216	GAWHANE ATUL	06	-	•	<b>-</b> €0	-	_	1
SC217	GOLE VARUN MANOJ	31	4	Bono	2	2	<u>1</u>	7
SC219	JADHAV PRATIK UMESH	20		Bailt	2	2	1	7
SC221	JAGTAP SURAJ BHANUDAS	15	4	saut.	2	2	2	8
SC222	KARTHIK SHRINIKETAN	39	4	¥2	2	2_	2_	8
SC223	KEJKAR SHANTANU RAJKUMAR	15	. 4	Bijler.	2	2	1	70
SC224	KESHARWANI RITIK MANOJ	08	4	(P)4/	2	2	1	7
SC225	KHESE SAKSHI AJIT	26	4	ghere	2	2	1	7
SC226	KULKARNI SAMRUDDHI C	23	4	do:	2	.2	2	8
SC227	KULKARNI SHALAKA DEEPAK	3	4	Jahrann	2	2_	2_	8
SC228	KULKARNI SHUBHANKAR S	14	4	278	2	2_		7

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### Marathwada Mitra Mandal's COLLEGE OF ENGINEERING, PUNE

Accredited with 'A' Grade by NAAC

#### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	08	Class	SE-11	Date	7/2/19	Time	12.30- R.30
Departm ent	COMPUTER	Sub	ADSL	Faculty	Anita Shinde	Batch	Α

Roll No.	Name of Student	Cumulative Marks 6 b	Expt No	Attd (sign)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Tota (10)
SC201	AGRAWAL RITESH RAKESH	42	5	(by Hamer)	2	2	2	8
SC203	BAHIRE DURVESH KISHOR	40	5	304	2	2	2	8
SC204	CHAUDHARI NISHANT PRAMOD	13	5	Ø₽	2	2	- J	7
SC205	CHAVAN JYOTI RAM	<u>2</u> 3	5	M	2_	2	1	7
SC207	DAPHAL ANAGHA DATTATRAYA	37	5	Mary	2_	2	1	7
SC208	DEO SIDDHESH GUNJAN	39	5	500.	2	2	2_	8
SC209	DESHPANDE APURV SHRIKANT	54	5	10	2	2_	3	9
SC210	DESHPANDE PRADYUMNA GIRISH	41	5	Op:	2	2	1	7
SC211	DHIVAR SANKET SUNIL	34	5	Aller.	2_	2	. 1	7
SC212	DIBYO	21	-	77-	-	-1	_	_
SC213	GADEKAR PRANAV VISHNU	32	5	R	2	2_	3	9
SC215	GANDHE ARNAV SANTOSH	46	5	15- Godhe	2	2	2_	8
SC216	GAWHANE ATUL	06	5	Ahl	2	2_	. (	7
SC217	GOLE VARUN MANOJ	38	5	Coour	2	2	2	8
SC219	JADHAV PRATIK UMESH	27	5	Ballo	2_	2	2	8
SC221	JAGTAP SURAJ BHANUDAS	23	5	Jule	2_	2	2_	8
SC222	KARTHIK SHRINIKETAN	47	5	1	2	2_	2_	8
SC223	KEJKAR SHANTANU RAJKUMAR	22	-		-	-	-	_
SC224	KESHARWANI RITIK MANOJ	15	5	Cor.	2_	2	3	9
SC225	KHESE SAKSHI AJIT	33	5	enere	2_	2	3	7
SC226	KULKARNI SAMRUDDHI C	3 J	5	Act	2	2_	2,	9
SC227	KULKARNI SHALAKA DEEPAK	39	5	& Kulkarni	2_	2_	3	9
SC228	KULKARNI SHUBHANKAR S	2	5	682	2	2	,	7

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### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	09	Class	SE-II	Date	11/2/19	Time	12.30
Departm ent	COMPUTER	Sub	ADSL	Faculty	Anita Shinde	Batch	A

Roll No.	Name of Student	Cumulative Marks (7)	Expt No	(2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	50	5B	Cydronay.	2	2	1	7
SC203	BAHIRE DURVESH KISHOR	48	513	Bal	2	2	2	8
SC204	CHAUDHARI NISHANT PRAMOD	2)	SB	O-mod har	2,	1	l	6
SC205	CHAVAN JYOTI RAM	4)	58	274n.	2	.1	J	6
SC207	DAPHAL ANAGHA DATTATRAYA	44	SB	Maria	2,	1	1	6
SC208	DEO SIDDHESH GUNJAN	47	5B	900	2	2	l	7
SC209	DESUPANDE APURV SHRIKANT	63	5B	AST.	2	2	3	9
SC210	DESHPANDE PRADYUMNA GIRISH	48	-	-		-	_	
SC211	DHIVAR SANKET SUNIL	41 -	SB	Aghrac.	2	1	(	6
SC212	DIBYO	2)	<b>\$</b> B−	-		_	-	_
SC213	GADEKAR PRANAV VISHNU	41	5B	0-	2	2	1	7
SC215	GANDHE ARNAV SANTOSH	54	5B	As Leandhe	2,	2	2	8
SC216	GAWHANE ATUL	13	SB	Afril	2	1	1	6
SC217	GOLE VARUN MANOJ	46	_	_	_	_	- 1	
SC219	JADHAV PRATIK UMESH	35		_	_	_	_	_
SC221	JAGTAP SURAJ BHANUDAS	31	5B	12 unt	2	2		7
SC222	KARTHIK SHRINIKETAN	5.5	SB	五	2	2	1	7
SC223	KEJKAR SHANTANU RAJKUMAR	22	5B	Eile	2		1	6
SC224	KESHARWANI RITIK MANOJ	24	SB	Dy:	2	2	1	7 6
SC225	KHESE SAKSHI AJIT	40	-		-	-	_	-
SC226	KULKARNI SAMRUDDHI C	48	58	drx.	2.	2	1	7
SC227	KULKARNI SHALAKA DEEPAK	48	5 B	3 Kulkaruni	2.	2	1	7
SC228	KULKARNI SHUBHANKAR S	28	SB	882	2	1	1	6

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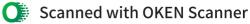


#### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	09	Class	SE-II	Date	14/2/19	Time	12.30-
Depart	COMPUTER	Sub	ADS Lab	Faculty	Anita S	Batch	А

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	57	6	(P) Jane	2	2	2	8
SC203	BAHIRE DURVESH KISHOR	56	6	Bal	2	2	3	9
SC204	CHAUDHARI NISHANT PRAMOD	27 ,	-	-	_	_		
SC205	CHAVAN JYOTI RAM	47	6	Thyn	2	2	1	7
SC207	DAPHAL ANAGHA DATTATRAYA	50	6	Mary	2_	2_	2_	8
SC208	DEO SIDDHESH GUNJAN	54	6	seo.	2	2_	2_	8
SC209	DESHPANDE APURV SHRIKANT	72	_	-	_			3
SC210	DESHPANDE PRADYUMNA GIRISH	48	6	PV.	2	2	(	7
SC211	DHIVAR SANKET SUNIL	47	6	8 hor	2	2_	·	7
SC212	DIBYO	21	_	_	_			
SC213	GADEKAR PRANAV VISHNU	48	6	P	2_	2_	2_	8
SC215	GANDHE ARNAV SANTOSH	62		-	-		7.	3
SC216	GAWHANE ATUL	19	~	- 1	-			
SC217	GOLE VARUN MANOJ	46	-	-	-	_	_	7_
SC219	JADHAV PRATIK UMESH	35	6	Balle	2	2	2_	8
SC221	JAGTAP SURAJ BHANUDAS	.38	6	Funt.	2_	2_	2-	8
SC222	KARTHIK SHRINIKETAN	62,	6	41	2_	2_	2	8
SC223	KEJKAR SHANTANU RAJKUMAR	28	6	seika.	2	2	1	7
SC224	KESHARWANI RITIK MANOJ	31	4	(O)	2_	2	2	8
SC225	KHESE SAKSHI AJIT	40	6	emese	2_	2		7
SC226	KULKARNI SAMRUDDHI C	47	6	dek	2_	2_	2_	8
SC227	KULKARNI SHALAKA DEEPAK	55	6	Skukazw	2	2_	2_	8
SC228	KULKARNI SHUBHANKAR S	34	6	882_	2_	2	1	7

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#### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	10	Class	SE-II	Date	18/2/19	Time	D-30.
Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anita S	Batch	2·3·
							1

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	63				11000	Sil(2)	
SC203	BAHIRE DURVESH KISHOR	65		ď				-
SC204	CHAUDHARI NISHANT PRAMOD	27	6	Hantari	2	2	-	_
SC205	CHAVAN JYOTI RAM	54	\			-		7
SC207	DAPHAL ANAGHA DATTATRAYA	58	1					
SC208	DEO SIDDHESH GUNJAN	62						-
SC209	DESHPANDE APURV SHRIKANT	72		1.				
SC210	DESHPANDE PRADYUMNA GIRISH	55		1			-	
SC211	DHIVAR SANKET SUNIL	54			-			
SC212	DIBYO	21			_			
SC213	GADEKAR PRANAV VISHNU	56					* 7	
SC215	GANDHE ARNAV SANTOSH	62		- "				
SC216	GAWHANE ATUL	19						
SC217	GOLE VARUN MANOJ	46				-		
SC219	JADHAV PRATIK UMESH	43						
SC221	JAGTAP SURAJ BHANUDAS	46						$\overline{}$
SC222	KARTHIK SHRINIKETAN	70	6	20	2_	.*	-	
SC223	KEJKAR SHANTANU RAJKUMAR	35	-	41		2_	2_	8
SC224	KESHARWANI RITIK MANOJ	39						₹.i
SC225	KHESE SAKSHI AJIT	47		-				-
SC226	KULKARNI SAMRUDDHI C	55						
SC227	KULKARNI SHALAKA DEEPAK	63	6	MAILAN				~
SC228	KULKARNI SHUBHANKAR S	41	~	Akrikozin	2	2_	2_	10

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#### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	10	Class	SE-II	Date	21/2/19	Time	12.30
Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anita S	Batch	A

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	63	7	CAganal	2	2_	1	7
SC203	BAHIRE DURVESH KISHOR	65	7	Bulle	2_	2	2_	8
SC204	CHAUDHARI NISHANT PRAMOD	34	-		-	-	~	-
SC205	CHAVAN JYOTI RAM	54	7	this.	2	2_	1	7
SC207	DAPHAL ANAGHA DATTATRAYA	58	7	Mas	2_	2	2_	8
SC208	DEO SIDDHESH GUNJAN	62	+	~	-	~	~	-
SC209	DESHPANDE APURV SHRIKANT	74	7	AED.	2	27	3	9
SC210	DESHPANDE PRADYUMNA GIRISH	55	7	RO:	2	2	2_	8
SC211	DHIVAR SANKET SUNIL	54	7	Shore	2	2_	1	7
SC212	DIBYO	2-1		-	-	-	_	_
SC213	GADEKAR PRANAV VISHNU	56		~	-	-	_	_
SC215	GANDHE ARNAV SANTOSH	(2	7	AJ-Gandhe	2	2	2_	8
SC216	GAWHANE ATUL	19		-	-		_	-
SC217	GOLE VARUN MANOJ	46	7	Pane	2_	2	1	7
SC219	JADHAV PRATIK UMESH	43	-	-	-	-		_
SC221	JAGTAP SURAJ BHANUDAS	46	7	au	2_	2_	2	8
SC222	KARTHIK SHRINIKETAN	78	7.	4-	2	2	2	-8
SC223	KEJKAR SHANTANU RAJKUMAR	35	. 7	Kigher!	2	2_	1	7
SC224	KESHARWANI RITIK MANOJ	39	7	P)-	2	2	l	7
SC225	KHESE SAKSHI AJIT	47	7	shere	2	2		<del></del>
SC226	KULKARNI SAMRUDDHI C	55	7	W	2_	2_	2_	8
SC227	KULKARNI SHALAKA DEEPAK	71	7	2 Kulkary	2_	3	2	9
SC228	KULKARNI SHUBHANKAR S	4]	7	232_	2_	2	1	7

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#### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Weck No.	1)	Class	SE-II	Date	25/2/19	Time	1230
Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anita S	Batch	2.10
							A

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	70	16 cm	(Agraum)	2	2	2	8
SC203	BAHIRE DURVESH KISHOR	73	16 exp.	Bul	2_	2	2	
SC204	CHAUDHARI NISHANT PRAMOD	34	16 eypo	Dadhar	2	2_		8
SC205	CHAVAN JYOTI RAM	61	16 4/10	Hn	2	2_		1
SC207	DAPHAL ANAGHA DATTATRAYA	66	16 expa	-1	2	2	-	Z
SC208	DEO SIDDHESH GUNJAN	62		Seo.	2	2	2	8
SC209	DESHPANDE APURV SHRIKANT	81	16 cypa	10	2		2_	8
	DESHPANDE PRADYUMNA GIRISH	63	-	781.	-	3	2_	9
	DHIVAR SANKET SUNIL	61	20-1 DO 1	AHAC			-	_
	DIBYO	21	16 eym		2	2	l	7
SC213	GADEKAR PRANAV VISHNU	54	16 expha		2	2	1	フ
	GANDHE ARNAV SANTOSH		H explo	14.6	2.	2_	2	8
	GAWHANE ATUL		16 extra	Altranthe	2_	2	2_	8
	GOLE VARUN MANOJ	19	_	-		-		_
	JADHAV PRATIK UMESH	53		-	-	-	-	-
		43	16 or ha	Palie	2	2	1	7
	JAGTAP SURAJ BHANUDAS	54	16 extm	Jump	2_	2	2	8
	KARTHIK SHRINIKETAN	86	16 exten	4.	2_	2	2	8
	KEJKAR SHANTANU RAJKUMAR	42	16 extm	bulka-	2	2_	1	7
	KESHARWANI RITIK MANOJ	46	16 extra	PK	2_	2	2	8
	KHESE SAKSHI AJIT	59	-	-	_	-		
- 1	KULKARNI SAMRUDDHI C	63	16 extra	des:	2_	2_	2_	0
SC227	KULKARNI SHALAKA DEEPAK	80		Akultasuu	2_	3	2	8
SC228	KULKARNI SHUBHANKAR S	48	16 expe	892	2	2	2	3

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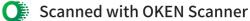


#### Practical Continuous Assessment Sheet– 2018-19(Sem – II)

Week No.	11-	Class	SE-II	Date	28/2/19	Time	230
Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anita S	Batch	Α

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	73	7	Paganes	2	2.	2	8
SC203	BAHIRE DURVESH KISHOR	81	7	FRA	2	2	2_	8
SC204	CHAUDHARI NISHANT PRAMOD	41	7	0	2	2	L	-7
SC205	CHAVAN JYOTI RAM	68	7	Myn.	2	2_	(	7
SC207	DAPHAL ANAGHA DATTATRAYA	74	7	John	2	2_	2	8
SC208	DEO SIDDHESH GUNJAN	70	7	se0	2	2	2	8
SC209	DESHPANDE APURV SHRIKANT	90	7	AS	2	3	2	9
SC210	DESHPANDE PRADYUMNA GIRISH	63	7	@p	2	2	2_	8
SC211	DHIVAR SANKET SUNIL	68	7	Shor	2	2	1	7
SC212	DIBYO	28	-	-	-	-		_
SC213	GADEKAR PRANAV VISHNU	64	7	Q-	2_	2	2_	8
SC215	GANDHE ARNAV SANTOSH	78	7	As-bundle	2	2_	2	8
SC216	GAWHANE ATUL	19	7	April	2-	2	t	7
SC217	GOLE VARUN MANOJ	53	7	Organ	2	2	2	8
SC219	JADHAV PRATIK UMESH	56	7	Barles	2_	2	2-	8
SC221	JAGTAP SURAJ BHANUDAS	62	7	Sunt	2_	2	2	8
SC222	KARTHIK SHRINIKETAN	94	-	- 1	-	-	_	
SC223	KEJKAR SHANTANU RAJKUMAR	41	-	<b>-</b> 0 €	-	_		_
SC224	KESHARWANI RITIK MANOJ	54	7	(8)6/	2	2	2	8
SC225	KHESE SAKSHI AJIT	54	7	Shee	2_	9		7
SC226	KULKARNI SAMRUDDHI C	71	7 .	de	2_	2	2	£
SC227	KULKARNI SHALAKA DEEPAK	89	7	8 Kulkar	2	2_	2_	-8
SC228	KULKARNI SHUBHANKAR S	56	-41		7.	-	-	-

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#### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	14	Class	SE-II	Date	10/3/19	Time	12:10
Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anita S	Batch	2.30
							A

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign)	Preparation	Participation in Conduction of	Post expt	211
SC201	AGRAWAL RITESH RAKESH	130-	5	(2)	(2)	Lab (4)	Quiz/certificati on(2)	Total (10)
SC203		86		-	_		-	-
	BAHIRE DURVESH KISHOR	89 .	9,16	180	2	2	2	2
SC204	CHAUDHARI NISHANT PRAMOD	48	_	-	-	-		-
SC205	CHAVAN JYOTI RAM	75	9,14	then	2	1	-	_
SC207	DAPHAL ANAGHA DATTATRAYA	<b>&amp;</b> 2,	9.16	Mapl	2			7
SC208	DEO SIDDHESH GUNJAN	78	9.16	Peo.	2	2		2
SC209	DESHPANDE APURV SHRIKANT	99	9 11			2_		8
	DESHPANDE PRADYUMNA GIRISH	7)		<b>**</b>	2	3	2_	9
	DHIVAR SANKET SUNIL		9,1\$	30	2	2	2	é
	DIBYO	75	9,16	Min	2	2_	1	7
		28	9,11	O'hy	2	ع	l	7
	GADEKAR PRANAV VISHNU	72,	9,18	64	2	2_	2	8
	GANDHE ARNAV SANTOSH	86	9,18	As bundle	2_	2_	2	8
	GAWHANE ATUL	26	-	-	-	_		٥
SC217	GOLE VARUN MANOJ	61	9.16	(Jasel)	2	2_	2_	_
SC219	JADHAV PRATIK UMESH	-28.	916	Batu	2_	2_		ś
C221	JAGTAP SURAJ BHANUDAS	70	9,11	well .	2		2_	3
C222	KARTHIK SHRINIKETAN	94	9,16	Cath		2	ع	8_
	KEJKAR SHANTANU RAJKUMAR	49		1	2_	3	2	9_
	KESHARWANI RITIK MANOJ		9,16	Bykos.	2	2_	1	7
	KHESE SAKSHI AJIT	62,	9,16	(PY/	2_	2	2	8
		61	1,14	Khele	2	2	1	7
	KULKARNI SAMRUDDHI C	79	9,16	de	2_	2_	2	8
	KULKARNI SHALAKA DEEPAK	97	9,16	Skutkaul		2	.2	ſ
C228	KULKARNI SHUBHANKAR S	Fol	9,14	C82	2	2	2_	8

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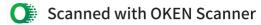


#### Practical Continuous Assessment Sheet– 2018-19(Sem – II)

Week No.	15	Class	SE-II	Date	25/3/19	Time	2.30
Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anita S	Batch	Α

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificati on(2)	Total (10)
SC201	AGRAWAL RITESH RAKESH	86	10,12	Pharams	2	2	2_	3
SC203	BAHIRE DURVESH KISHOR	97	10, 12	Deb	2	2_	2_	ક
SC204	CHAUDHARI NISHANT PRAMOD	42	_	-	1-	-	·-	_
SC205	CHAVAN JYOTI RAM	82	10,12	bh	2	2	1	7
SC207	DAPHAL ANAGHA DATTATRAYA	87	10,12	Adap	2	2_	2	8
SC208	DEO SIDDHESH GUNJAN	81	16,12	20.	2_	2_	2_	8
SC209	DESHPANDE APURV SHRIKANT	108	10,12	恒	2_	3	2	9
SC210	DESHPANDE PRADYUMNA GIRISH	71	-	_ '	-	_	* <u></u>	_
SC211	DHIVAR SANKET SUNIL	12	_		·_	·	_	_
SC212	DIBYO	35	-		-	-	-	_
SC213	GADEKAR PRANAV VISHNU	79	10,12	0-	2_	3	2	9
SC215	GANDHE ARNAV SANTOSH	94	10,12	As-Gardhe	2_	2_	2	8
SC216	GAWHANE ATUL	26	-	-		-	_	_
SC217	GOLE VARUN MANOJ	69		· ·	-	1	-	_
SC219	JADHAV PRATIK UMESH	66	-	-	-	-		-
SC221	JAGTAP SURAJ BHANUDAS	7\$	-		-	-	-	,
SC222	KARTHIK SHRINIKETAN	103	-	-	-	-		_
SC223	KEJKAR SHANTANU RAJKUMAR	56	10,12	Rillon	2_	2_	ı	7
SC224	KESHARWANI RITIK MANOJ	70	16,12	Br.	2_	2_	2	8
SC225	KHESE SAKSHI AJIT	62	-	_	-	-	_	_
SC226	KULKARNI SAMRUDDHI C	87	10,12	(VOE.	2_	2_	2_	8
SC227	KULKARNI SHALAKA DEEPAK	106	10,12	kulkatu	2	9	2	9
SC228	KULKARNI SHUBHANKAR S	64	10,12	CEN.	2	2	7 <b>E</b>	7

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#### Practical Continuous Assessment Sheet- 2018-19(Sem - II)

Week No.	15	Class	SE-II	Date	28/3/19	Time	3.41.
Depart ment	COMPUTER	Sub	ADS Lab	Faculty	Anita S	Batch	A

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificat on(2)	i	Total (10)
SC201	AGRAWAL RITESH RAKESH	94	14.13	6 Paraman	2	2_	2	N FEE	8
SC203	BAHIRE DURVESH KISHOR	105	14,13	THE STATE OF THE S	2	2	2	8	Tir
SC204	CHAUDHARI NISHANT PRAMOD	48	-	`	-	-	-	+	4
SC205	CHAVAN JYOTI RAM	99	1413	this.	2	2_	1	>	96
SC207	DAPHAL ANAGHA DATTATRAYA	97	14.13	Moth	2_	2	2	8	
SC208	DEO SIDDHESH GUNJAN	94	,	-	-	-		1	94
SC209	DESHPANDE APURV SHRIKANT	1+7	17.13	185	2_	3	2	9	12
SC210	DESHPANDE PRADYUMNA GIRISH	79	14,13	Do:	2_	٤	2	8	81
SC211	DHIVAR SANKET SUNIL	82	1313	Street.	2_	2	(	5	81
SC212	DIBYO	35	_	-	-	' -	-	-	35
SC213	GADEKAR PRANAV VISHNU	88	14,13	RO	2	2_	2_	8	96
SC215	GANDHE ARNAV SANTOSH	102	1513	As Candha	2_	2		6	lto
SC216	GAWHANE ATUL	26	_	-		_	_	_	26
SC217	GOLE VARUN MANOJ	69	13,13	agen	2	2		>	76
SC219	JADHAV PRATIK UMESH	66	15.13	Balik	2_	2	2	દ	74
SC221	JAGTAP SURAJ BHANUDAS	78	13,13	seven"	2_	2		_	86
SC222	KARTHIK SHRINIKETAN	103	_	-		-		_	00
SC223	KEJKAR SHANTANU RAJKUMAR	63	4		_	-		_	
SC224	KESHARWANI RITIK MANOJ	79	19,13	Ofy.	2	2_	2	8	86
SC225	KHESE SAKSHI AJIT	68	-	- 0/				_	.68
SC226	KULKARNI SAMRUDDHI C	95	14,13	de:	2	2_	2 2	_	-
SC227	KULKARNI SHALAKA DEEPAK	115		Kukaw	2	3	2 7	-	103
SC228	KULKARNI SHUBHANKAR S	7)	13.13	SSE	2	2	1 7	<del>,  </del>	78

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#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	4		Class	-	ΤE		Date	11/1/19	Time	11.15	-1.15
Depart ment	Electrical		Sub	I	EM		Faculty	PKC	Batch	А	
Roll No.	Name of Student		Cumula tive Marks	Exp No		Attd sign)	Regularity & Punctuality (5)	Understandi ng & Preparation for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE01	AAFAQ AHMAD BHAT	(8)	12/119		1	As	2_	2	2	2	8
TE02	AMIT KUMAR GUPTA	(14)	1		1	New	/5	3	3	3	14
TE03	ANMULWAD SHYAM SAMBHA.	(13)			2	and	5	3	2	3	13
TE04	ARMAL VISHAL SUDHAKAR	(13)			_	1.	5	3	2	3	13
TE05	AWASTHI AKSHAY DHANANJA	(16)			-	巫	5	4	3	4	16
TE06	BARI SHUBHAM VASUDEV	(9)			q	3	2	2	2	3	9
TE07	BHALKARE CHETAN NARAYAN				Ol	lur,	5	4	3	4	16
TE08	BODKE PRANAV SANJAY	(8)		l	PE	مكمون	2	2	2	2	8
TE09	BUDDAWAR VAIBHAV NARSIM	1LU (1		01	\$	2	5	4	4	4	17
TE10	CHOUGULE KUNAL SUJEET	(15)		1	(9)	肿	5	4	3	3	15
TEII	DAVANE MONIKA ANKUSH	(12)	3/1/19		Pro	ides	3	3	3	3	12
TE12	DESHMANE MEGHA ABASO	(10)	18/11/9		T	she	2	3	3	2	10
TE13	GAME KARTIK RAJENDRA-	(13)	12/1/12		(H	me	3	3	3	4	13
TE14	GAURI KULKARNI	(12)	3/119		4	(عور	3	3	3	3	12
TE15	GAVHANE SHUBHAM KISAN		3/1/19		3	yh	3	3	3	2	11
TE16	HUKKERIKAR SIDDHI SANJEEV		3/119		B	841.	3	4	.4	3	14
TE17	JADHAV CHETAN NANASAHEB	(13)	3/1/19		che	lan'	3	3	3	4	13
TE18	JOSHI PRADNYA ANIL (	(12)	13/1/19		12	adry5	3	3	3	3	1.2
TE19	KAGDE PALLAVI BHARAT (	-	13-149		, pk	adob.	3	3	3	4	1,3

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	6	Class	TE	Date	25/1/19	Time	1115- 115
Depart ment	Electrical Engg.	Sub	DEM	Faculty	PRC	Batch	A

Roll No.	Name of Student	Cumula tive Marks (40)	E:	xpt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp.	Post expt Skills (5)	Total (20)
TE01	AAFAQ AHMAD BHAT	21	1	/	A motor	5	3)	2	3)	13
TE02	AMIT KUMAR GUPTA	28			And	5	3	3)	3	14
TE03	ANMULWAD SHYAM SAMBHAJI	<u>3</u> 0			Murch	5	4	4	4	17
TE04		2121	3		F.	2	2	3	2	9
TE05	AWASTHI AKSHAY DHANANJAY 33	26			8	5	4	4	4	17
TE06	BARI SHUBHAM VASUDEV 18	1/3/19			Qr	2	2	3	2	g)
TE07	BHALKARE CHETAN NARAYAN	33			Jen	5	4	4	4	17
TE08	BODKE PRANAV SANJAY 16	1/3/19	)	1	PBoy	12	2	2	2	हे
TE09	BUDDAWAR VAIBHAV NARSIMLU	32		1	TOUTH THE	5	4	3	3	15
TE10	CHOUGULE KUNAL SUJEET	31	1		Eggt.	5	4	4	<i>(</i> 2	16
TEII	DAVANE MONIKA ANKUSH	30			Arily	5	5	4	4	18
TE12	DESHMANE MEGHA ABASO	27		5	Malma	5	4	4	4	17
TE13	GAME KARTIK RAJENDRA	32			Klome	-5	5	5	4	19
TE14	GAURI KULKARNI	30			AUR	.5	5	4	4	18
TE15	GAVHANE SHUBHAM KISAN	29			Allan	-5	5	5	3	18
TE16	HUKKERIKAR SIDDHI SANJEEV	33			BUSH	5	5	5	4	19
TE17	JADHAV CHETAN NANASAHEB 22	1/3/19		<u> </u>	cheturi	. 2	2	2	S	9
TE18	JOSHI PRADNYA ANIL	30			grady.	5	5	4	4	18
TE19	KAGDE PALLAVI BHARAT	32	_		pkyde	5	5	5	4	19

Bhoub Course Coordinator

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	7	Class	TE	Date	01/2/19	Time	11.12-1.12
Depart ment	Electrical Engg.	Sub	DEM	Faculty	PRC	Batch	A.

Roll No.	Name of Student	Cumula tive Marks (60)	Exp No		Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE01	AAFAQ AHMAD BHAT	35	t	A A	5	4	3	2	14
TE02	AMIT KUMAR GUPTA	42		Six	5	3	3	3	14
TE03	ANMULWAD SHYAM SAMBHAJI	46		Meigh	5	4	4	3	16
TE04	ARMAL VISHAL SUDHAKAR	38		H.	5	4	3	4	16
TE05	AWASTHI AKSHAY DHANANJAY 45	3/2/10	3	3	3	3	3	3	12
TE06	BARI SHUBHAM VASUDEV	35		Styl	5	4	4	4	17
TE07	BHALKARE CHETAN NARAYAN	49		du	5	3	5	3	16
TE08	BODKE PRANAV SANJAY	24	١	Bolke	2	2	2	2	8
TE09	BUDDAWAR VAIBHAV NARSIMLU	48	2	Touth	5	3	4	4	16
TE10	CHOUGULE KUNAL SUJEET	48		894.	5	4	4	4	17
TE11	DAVANE MONIKA ANKUSH 42	3/2/19		ariles	3	3	<u>S</u>	3	12
TE12	DESHMANE MEGHA ABASO	44		Dulye	5	4	5	3	17
TE13	GAME KARTIK RAJENDRA	50		Kame	-5	4	5	4	18
TE14	GAURI KULKARNI 40	3/2/19		The second	2	3	3	2	10
TE15	GAVHANE SHUBHAM KISAN	47		John	5	4	5	4	18
TE16	HUKKERIKAR SIDDHI SANJEEV	52		8284	5	5	5	4	19
TE17	JADHAV CHETAN NANASAHEB	39		chetom		4	5	3	17
TE18	JOSHI PRADNYA ANIL	47		fragings.	5	4	4	4	17
TE19	KAGDE PALLAVI BHARAT	51	y	Phylo	5	-5	5	4	19



Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	8	Class	TE	Date	08/2/19	Time	11/15-1/15
Depart ment	Electrical	Sub	DEM	Faculty	PRC	Batch	Ą

Roll No.	Name of Student	Cumula tive Marks (80)	Exp	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post	Total (20)
TE01	AAFAQ AHMAD BHAT	52	1	And	5	4	4	4	17
TE02	AMIT KUMAR GUPTA	50		Six	2	2	2	2	8
TE03	ANMULWAD SHYAM SAMBHAJI	63		Smal	5	5	4	3	17
TE04	ARMAL VISHAL SUDHAKAR	56		A.	5	5	4	4	18
TE05	AWASTHI AKSHAY DHANANJAY	62		-12	5	4	4	4	17
TE06	BARI SHUBHAM VASUDEV	52		Dong	5	4	4	4	17
TE07	BHALKARE CHETAN NARAYAN 58	13/2/19		du	2	2	3	2	9
TE08	BODKE PRANAV SANJAY	4-1		130dl	5	4	4	4	17
TE09	BUDDAWAR VAIBHAV NARSIMLU	63		De yet	5	4	3	3	15
TE10	CHOUGULE KUNAL SUJEET	65		80) at.	5	4	5	3	17
TE11	DAVANE MONIKA ANKUSH 53	13/2/19	2	Roubs	3	3	3	2	11
TE12	DESHMANE MEGHA ABASO	61		Dalme.	5	4.	9	4	17
TE13	GAME KARTIK RAJENDRA	68		Home	, 5	5	4	4	18
TE14	GAURI KULKARNI 50	13/2/19		(Due)	3	2	3	2	10
TE15	GAVHANE SHUBHAM KISAN 56	13/2/19		Jum	. 2	3	2	2.	9
TE16	HUKKERIKAR SIDDHI SANJEEV	71	ν.	(Bass)	5	5	4	5	19
TE17	JADHAV CHETAN NANASAHEB	57		cheton	: 5	5	4	4	වා
TE18	JOSHI PRADNYA ANIL	65		fradula	5	4	4	5	18
TE19	KAGDE PALLAVI BHARAT	70	1	Pringe	5	5	5	4	19

#### Practical Continuous Assessment Sheet-2018-19 (Sem - II)

Week No.	9	Class	TE	Date	15/2/19	Time	11.15-1.15
Depart ment	Electeical	Sub	DEM	Faculty	PRC	Batch	A

Roll No.	Name of Student	Cumula tive Marks ( 100 )	Expt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE01	AAFAQ AHMAD BHAT	68	1	Como	5	4	4	3	16
TE02	AMIT KUMAR GUPTA	58		Sunt	2	2	2	2	8
TE03	ANMULWAD SHYAM SAMBHAJI	79		Sport	5	4	4	3	16
TE04	ARMAL VISHAL SUDHAKAR	71		#	5	4	3	3_	15
TE05	AWASTHI AKSHAY DHANANJAY	79		吏	5	5	4	3	17
TE06	BARI SHUBHAM VASUDEV	69		Dug	5	5	4	3	17
TE07	BHALKARE CHETAN NARAYAN	76		Chu.	5	5	4	4	18
TE08	BODKE PRANAV SANJAY	58		Jodin	5	5	4	3	17
TE09	BUDDAWAR VAIBHAV NARSIMLU	80		EXT.	5	5	4	3	17
TE10	CHOUGULE KUNAL SUJEET	83	2	Soft.	5	5	.4	4	18
TEII	DAVANE MONIKA ANKUSH 64	B18119	1	Mariba	3	2	3	3	11
TE12	DESHMANE MEGHA ABASO	78		<del>Oston</del>	5	5	3	4	17
TE13	GAME KARTIK RAJENDRA	88		Frame	5	5	4	4	18
TE14	GAURI KULKARNI 58	18/2	1	THYP?	2	2	2	2	8
TE15	GAVHANE SHUBHAM KISAN	72	1	Lubby	5	5	3	3	16
TE16	HUKKERIKAR SIDDHI SANJEEV	23	_	CLASS).	5	5	4	4	18
TE17	JADHAV CHETAN NANASAHEB	75		chetan.	5	5	4-	4	ાક
TE18	JOSHI PRADNYA ANIL	83		gradings.	5	5	4	7	18
TE19	KAGDE PALLAVI BHARAT	89	7	pkryst	5	5	5	4	19

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	11	Class	T£	Date	01/3/19	Time	11-15-1-15
Depart ment	Electrical Engg.	Sub	DEM	Faculty	PRC	Batch	A .

Roll No.	Name of Student	Cumula tive Marks (120)	Exp No		Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE01	AAFAQ AHMAD BHAT	82			Andr	5	3	0	ત)	14
TE02	AMIT KUMAR GUPTA	71			dist	5	3	ઝ	d	13
TE03	ANMULWAD SHYAM SAMBHAJI 89	9319			800 A	2	3	d	(റ)	10
TE04	ARMAL VISHAL SUDHAKAR 87				H.	5	4	4	3	16
TE05	AWASTHI AKSHAY DHANANJAY 🤧	6131	17		The second	3	3	3	3	12
TE06	BARI SHUBHAM VASUDEV	86			Bou	5	4	4	4	17
TE07	BHALKARE CHETAN NARAYAN	94			Chin.	5	4	5	4	18
TE08	BODKE PRANAV SANJAY	75			1 gold	5	4	5	3	17
TE09	BUDDAWAR VAIBHAV NARSIMLU	98			BY	5	5	4	4	18
TE10	CHOUGULE KUNAL SUJEET	9_9	1		460	5	4	4	3	16
TEII	DAVANE MONIKA ANKUSH	80	3	_	Marshar	5	4	4	3	16
TE12	DESHMANE MEGHA ABASO	93	1		Achmin	5	3	4	3	15
TE13	GAME KARTIK RAJENDRA	106		_(	Kome	-5	5	5	3	18
TE14	GAURI KULKARNI	74			AND.	5	4	4	3	16
TE15	GAVHANE SHUBHAM KISAN 82	6/3/19		-	Liber	. 3	B	2	2	10
TE16	HUKKERIKAR SIDDHI SANJEEV 100	61319			BUSH	3	3	3	2	11
TE17	JADHAV CHETAN NANASAHEB 87	6 3 19			hetur'	3	3	3	$\wp$	$\overline{N}$
TE18	JOSHI PRADNYA ANIL	100			padya.	5	4	4	4	17
TE19	KAGDE PALLAVI BHARAT 101	8-3-19	$\downarrow$	/	plants	3	3	3	3	12

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	14-	Class	TE	Date	22/3/19	Time	11.12401.12
Depart ment	Electrical Engg.	Sub	DEM	Faculty	PRC	Batch	A

Roll No.	Name of Student	Cumula tive Marks (140)	Exp No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp.	Post	Total (20)
TE01	AAFAQ AHMAD BHAT	PP	1	that	5	4	4	4	17
TE02	AMIT KUMAR GUPTA	88		AM	-5	4	4	4	17
TE03	ANMULWAD SHYAM SAMBHAJI	107		SAnny	5	4	4	5	18
TE04	ARMAL VISHAL SUDHAKAR 96	28/3/19		到,	2	2	3	2	9)
TE05	AWASTHI AKSHAY DHANANJAY	109		I	5	4	5	4	18
TE06	BARI SHUBHAM VASUDEV	104		3500i	5	4	5	4	18
TE07	BHALKARE CHETAN NARAYAN	111		du	5	4	4	4	17
TE08	BODKE PRANAV SANJAY	84		Bow	2	3	2	2	9
TE09	BUDDAWAR VAIBHAV NARSIMLU 108	28/3/19	3	THE ST	2	2	3	3	10
TE10	CHOUGULE KUNAL SUJEET	116		094	5	4	4	4	17
TE11	DAVANE MONIKA ANKUSH	99		Marika	5	5	4	5	19
TE12	DESHMANE MEGHA ABASO	111		Mahry	5	5	4	4	18
TE13	GAME KARTIK RAJENDRA 25/3/19	118		Kame	3	3	3	8	12
TE14	GAURI KULKARNI	91		AUR'T	5	4	4	4	17
TE15	GAVHANE SHUBHAM KISAN 93	25/3/1	9.	Supra	3	3	2	3	11
TE16	HUKKERIKAR SIDDHI SANJEEV 113	25/3/		BLEY.	3	3	3	4	13
TE17	JADHAV CHETAN NANASAHEB 100	25/3/19	7	cheton	, 3	3	4	3	13
TE18	JOSHI PRADNYA: ANIL 117			gustinger	5	4	4	4	17
TE19	KAGDE PALLAVI BHARAT 120		1	pkingh	5	5	5	4	19

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	15	Class	TE	Date	29.3.19	Time	11.15-1.15
Depart ment	Electrical Engg.	Sub	DEM	Faculty	PRC	Batch	A·

Roll No.	Name of Student	Cumula tive Marks (24)	Expt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE01	AAFAQ AHMAD BHAT 113	14	$\leftarrow$	A room	5	3)	3)	3	14
TE02	AMIT KUMAR GUPTA 162	14		Six	-5	S	3	3	14
TE03	ANMULWAD SHYAM SAMBHAJI 2 2	15		Smid	5	3	4	3)	15
TE04	ARMAL VISHAL SUDHAKAR	15		H.	5	3	4	3	15
TE05	AWASTHI AKSHAY DHANANJAY 126	17		F	5	4	4	4	17
TE06	BARI SHUBHAM VASUDEV 120	18		23 gg)	5	4	-3	4	16
TE07	BHALKARE CHETAN NARAYAN 9	1914119		du	2	2	2	3	9
TE08	BODKE PRANAV SANJAY 100	16		Ozde	5	4	4	3	16
TE09	BUDDAWAR VAIBHAV NARSIMLU	124	4.	1	5	4	3	4	16
TE10	CHOUGULE KUNAL SUJEET	131		894	5	4	, 3	3	15
TE11	DAVANE MONIKA ANKUSH	116		Donika	5	4	4	4	17
TE12	DESHMANE MEGHA ABASO	128		Mopuria	5	4	4	3	17
TE13	GAME KARTIK RAJENDRA	136		Kame	- 5	4	5	4	18
TE14	GAURI KULKARNI 100	4/4/19		LAURD	2	2	2	3	9
TE15	GAVHANE SHUBHAM KISAN V	107		Aublu	5	2	3	3	14
TE16	HUKKERIKAR SIDDHI SANJEEV	130		(BUSH)	5	4	4	4	17
TE17	JADHAV CHETAN NANASAHEB	116		<u>chetum</u>	5	4	4	3	16
TE18	JOSHI PRADNYA ANIL 128	4/4/19		July	3₹	3	3	2	11
TE19	KAGDE PALLAVI BHARAT 137	137	$\Lambda$ .	Physics	5	4	4	4	17

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	4	Class	TE	Date	7/1/19	Time	11.15-1.15
Depart ment	Electrical	Sub	DEM	Faculty	PRC	Batch	В

	1 to								
Roll No.	Name of Student	Cumula tive Marks (20)	Expt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE20	KAPADANE AASHISH MUKUNDRAO	18	1	Aux	5	4	5	6	18
TE21	KAWALE CHHAYENDRA VISHNU	17		With.	5	4	4	4	47
TE22	KULKARNI MRUNAL DATTATRAYA	17		#	5	4	4	4	17
TE23	MALI SAMEEKSHA UMESH	18		Smali	. 5	4	5	4	18
TE24	MARATHE YASH UDAY	16		Mart.	-5	4	3	4	16
TE25	MESHRAM RAHUL DAMODHAR	17		Filhul	5	4	4	4	17
TE26	MORKHANDE AVINASH SANGRAM	15	1	Alude	5	4	3	3	15
TE27	NAIKAWADI NIKHIL PRADIP	17		Clery	5	4	4	4	17
TE28	NANAWARE ASHUTOSH GOVIND	16		OK!	5	,4	4	$\mathcal{S}$	6
TE29	NARWADE MANISHA DEVRAO	17		Cooperation	b	4	4	4	17
TE30	NAYKAWDI YOGESH ASHOK	19		19	5	5	4	5	19
TE31	NEMADE RISHIKESH RAJENDRA	17		图的	5	4 .	4	4	17
TE32	PADOLE AISHWARYA SHIVANANDRAO	19		Markete	5	4	5	5	19
TE33	PADOLE VAISHNAVI NILKANTH	18		O de	5	4	5	4	8
TE34	PALASH SANJAY BOBADE	17-		1	5	4	4	4	17
TE35	PATIL PRITI VIJAY	16		Pil	5	4	4 .	3	16
TE36	PATIL ROHAN GOPAL	16		Pohar	5	4	4	3	16
TE37	PATIL URVESH SUBHASH	17		flutt	5	4	4	4	17
TE38	PIMPARKAR POOJA HEMRAJ	16	V	Pooja	5	4	4	3	16



#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	4	Class	TE	Date	10/01/19	Time	11:15-1:15
Depart ment	Electrical Engineering	Sub	DEM	Faculty	PRC	Batch	8.

		<b>V</b>									
	Roll No.	Name of Student	Cumula tive Marks (40)	Ex	cpt lo	Attd (sign)	Regularity & Punctuality (5)	Understand ing & Preparation for Objective (5)	Participation in performance & conduction of Exp.	Post	Total (20)
	TE20	KAPADANE AASHISH MUKUNDRAO	36	1		Acok	5	5	(5)	3	18
•	TE21	KAWALE CHHAYENDRA VISHNU	28			16/45	. 5	2	2	2	11
	ГЕ22	KULKARNI MRUNAL DATTATRAYA	35			A	5	4	5	4	18
	TE23	MALI SAMEEKSHA UMESH	37			Sindli	5	4	5	5	19
	TE24	MARATHE YASH UDAY	32			(V) art	5	3	4	4	16
	TE25	MESHRAM RAHUL DAMODHAR	33			PONUL	5	4	3	4	16
	TE26	MORKHANDE AVINASH SANGRAM	2.3			Alude.	2	2	2	2	8
	TE27	NAIKAWADI NIKHIL PRADIP	32			wiley	5	3	4	3	15
	TE28	NANAWARE ASHUTOSH GOVIND	24	7		OPO.	3	2	.2	2	9
	TE29	NARWADE MANISHA DEVRAO	31	0	1	Compa	5	3	3	3	14
-	TE30	NAYKAWDI YOGESH ASHOK	36	_		4	5	4	4	4	17
	TE31	NEMADE RISHIKESH RAJENDRA	32			#6	5	4	4	2	15
	TE32	PADOLE AISHWARYA SHIVANANDRAO	35			ppoduke	5	4	4	3	16
	VE33	PADOLE VAISHNAVI NILKANTH	35			Modele	5	4	4	4	17
	TE34	PALASH SANJAY BOBADE	32		ķ	T t	5	4	4	2	15
^	TE35	PATIL PRITI VIJAY	27			Palis	5	2	2	2	11
	TE36	PATIL ROHAN GOPAL	29			Robaco	5	2	3	3	13
	TE37	PATIL URVESH SUBHASH	31			spect.	5	3	3	3	14
, [	TE38	PIMPARKAR POOJA HEMRAJ	27	•	ļ	Poole	5	2	2	2	11



#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

	Week No.	6	Class	TE	Date	24/1/19	Time	11:15 to
,	Depart	Electrical Engg.	Sub	DEM	Faculty	PRC	Batch	8

Roll No.	Name of Student	Cumula tive Marks (60)	Expt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE20	KAPADANE AASHISH MUKUNDRAO (48)	26-1-12		415	3	റ	3	3	12
TE21	KAWALE CHHAYENDRA VISHNU (34)	26/1/19		Conta	3	3	3	2	11
TE22	KULKARNI MRUNAL DATTATRAYA(47)	26/1/19		At .	3	3	3	3	12
TE23	MALI SAMEEKSHA UMESH (49)	26-49		Small'	. 3	3	3	3	12
TE24	MARATHE YASH UDAY (44)	26/1/19		(Par	3.	3	3	3	12
TE25	MESHRAM RAHUL DAMODHAR (44)	26-1-19		Puhul	3	3_	3	2	11
TE26	MORKHANDE AVINASH SANGRAM (31)			AW.	2	2	2	2	8
TE27	NAIKAWADI NIKHIL PRADIP (44)			Om	. 3	3	3	3	12
TE28	NANAWARE ASHUTOSH GOVING (36)			W.	3	3	3	3	12
TE29		26/1/19	02	Morte	:3	3	3_	3_	12
TE30	NAYKAWDI YOGESH ASHOK (54)		1	4-10	05	4	5	4	18
TE31	NEMADE RISHIKESH RAJENDRA(50)			OF TO	05	4	5	4	18
TE32	PADOLE AISHWARYA SHIVANANDRAO (	52)		Madde	05	4	4	4	17
TE33	PADOLE VAISHNAVI NILKANTH	52)	1	Charles	05	4	4	4	17
TE34	PALASH SANJAY BOBADE (4	(و		A A	05	4	4	4	17
TE35	PATIL PRITI VIJAY (43)			Butil	05	4	4	3	6
TE36	PATIL ROHAN GOPAL (37)	02/02/19		Afarif	2	2	2	2	8
TE37	PATIL URVESH SUBHASH (47)			plati	05	4	4	3	16
TE38	PIMPARKAR POOJA HEMRAJ (36)	5/3/13	1	Pogg	2	2	3	2	9

Poube Course Coordinator

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	7	Class	TE	Date	311/19	Time	11:15 to
Depart ment	Electrical Engg.	Sub	DEM,	Faculty	PRC	Batch	В

Roll No.	Name of Student	Cumula tive Marks	Expt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE20	KAPADANE AASHISH MUKUNDRAO	(66)	1	Acak	5	4	5	4	18
TE21	KAWALE CHHAYENDRA VISHNU (	<u>(54)</u>		Ship	5	4	3	3	15
TE22	KULKARNI MRUNAL DATTATRAYA	(64)		W 1	5	4	4	4	17
TE23	MALI SAMEEKSHA UMESH	(67)		Singli	5	5	4	4	18
TE24	MARATHE YASH UDAY	(61)		Dark	15	5	3	4	17
TE25	MESHRAM RAHUL DAMODHAR	(61)		Fahiy	5	5	4	3	17
TE26	MORKHANDE AVINASH SANGRAM	(39)	2	frx:	2	5	2	2	8
TE27	NAIKAWADI NIKHIL PRADIP	(62)	1	O'bud	5	5	4	4	18
TE28	NANAWARE ASHUTOSH GOVIND	(54)		ASS.	5	5	5	3	18
TE29	NARWADE MANISHA DEVRAO (55)	2 2 19		Markon	3	3	3	3	12
TE30	NAYKAWDI YOGESH ASHOK (67)	2/2/19		4201	3	3	4	3	13
TE31	NEMADE RISHIKESH RAJENDRA (63):	2-2-19		(Bir)	3	<u>ج</u> د	4	3	<u> </u>
TE32	PADOLE AISHWARYA SHIVANANDRAO	2/2/19	(65)	Dodde	3	3	4	3	3
TE33	PADOLE VAISHNAVI NILKANTH (46)	2/2/19		Belet	3	3	4	4	14
TE34	PALASH SANJAY BOBADE (63)			port.	3	3	4	4	14
TE35	PATIL PRITI VIJAY (57)	2/2/01		Dati	3	3	4	4	14
TE36	PATIL ROHAN GOPAL (46)	2/2/19		Ashary	3	2	2	7	<b>8</b> 9
TE37	PATIL URVESH SUBHASH (56)	212/12		gust	3	2	2	2	9)
TE38	PIMPARKAR POOJA HEMRAJ (47)	2/2/17	$\downarrow$	Degic	ઝ	٥.	3	3)	1)

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	9	Class	TE	Date	14-12/19	Time	11.15-1.15	
Depart ment	Electrical Eng.	Sub	DEM	Faculty	PRC	Batch	B	

Roll No.	Name of Student	Cumula tive Marks	Exp No		Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE20	KAPADANE AASHISH MUKUNDRAO	(84)	1		Acik	5	4	4	5	18
TE21	KAWALE CHHAYENDRA VISHNU (	(73)		*	Volati)	5	5	5	4	19
TE22	KULKARNI MRUNAL DATTATRAYA (75)	12/2			中	2	3	3_	3	11
TE23	MALI SAMEEKSHA UMESH (80)	22-2			8 mali	3	3	3	4	13
TE24	MARATHE YASH UDAY (78)				Dach	5	4	4	4	17
TE25	MESHRAM RAHUL DAMODHAR (78)				Pohul	5	4	4	4	17
TE26	MORKHANDE AVINASH SANGRAM (55)				Dunde	5	4	4	3	16
TE27	NAIKAWADI NIKHIL PRADIP (	78)			oilou	5	4	4	3	16
TE28	NANAWARE ASHUTOSH GOVIND	(70)	-			5	4	4	3	16
TE29	NARWADE MANISHA DEVRAO	(70)	2		market 1	5	4	3	3	15
TE30	NAYKAWDI YOGESH ASHOK	(84)			100	5	4	4	4	17
TE31	NEMADE RISHIKESH RAJENDRA	(80)			Br5	5	4	4	4	17
TE32	PADOLE AISHWARYA SHIVANANDRAO	(83)			Make	5	4	4	5	18
TE33	PADOLE VAISHNAVI NILKANTH	(84)			Radio	-5	4	4	5	18
TE34	PALASH SANJAY BOBADE	(79)			0 to	- 5	4	4	3	16
TE35	PATIL PRITI VIJAY	(76)			Pall	5	5	5	4	19
TE36	PATIL ROHAN GOPAL (54)	22/02/19			Akrij	2	2	2	2	රී
TE37	PATIL URVESH SUBHASH	73)			Solut	5	4	4	4	17
TE38	PIMPARKAR POOJA HEMRAJ	(65)			Pooje	5	5	4	4	18

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	11	Class	TE	Date	28/2/19	Time	11.12-1.15
Depart ment	Electeical Engg.	Sub	DEM	Faculty	PRC	Batch	R

Roll No.	Name of Student	Cumula tive Marks (120)		cpt lo	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE20	KAPADANE AASHISH MUKUNDRAO	[102]	1		Jean	5	4	4	5	18
TE21	KAWALE CHHAYENDRA VISHNU	(68)			Opt	5	4	3	4	16
TE22	KULKARNI MRUNAL DATTATRAYA	(91)			舉	5	4	4	3	16
TE23	MALI SAMEEKSHA UMESH	(97)			Smali	. 5	4	5	3	17
TE24	MARATHE YASH UDAY	(96)			Occol	5	4	5	4	18
TE25	MESHRAM RAHUL DAMODHAR	(96)			Fohil	5	5	4	4	18
TE26	MORKHANDE AVINASH SANGRAM	(63)				2_	2	2	2	8
TE27	NAIKAWADI NIKHIL PRADIP	(95)			Dibil	5	4	5	B	17
TE28	NANAWARE ASHUTOSH GOVIND	(86)		1	(A)	5	4	4	3	16
TE29	NARWADE MANISHA DEVRAO (82)	110/19		_	Mound	3	3	3	3	12
TE30	NAYKAWDI YOGESH ASHOK (	(103)			12i	5	5	5	4	13
TE31	NEMADE RISHIKESH RAJENDRA	(97)			(B)S	5	4	5	3	17
TE32	PADOLE AISHWARYA SHIVANANDRAO	(100)			Madule	5	4	4	4	17
TE33	PADOLE VAISHNAVI NILKANTH	(102)			Cath	5	4	5	4	18
TE34	PALASH SANJAY BOBADE	(96)		ع	2)9	5	4	5	3	17
TE35	PATIL PRITI VIJAY	(94)			Boly	5	4	5	4	18
TE36	PATIL ROHAN GOPAL	(70)			Rohay Frohi	5	3	5	છ	16
TE37	PATIL URVESH SUBHASH	(88)			gluff.	5	4	4	3	16
TE38	PIMPARKAR POOJA HEMRAJ	(82)	Y	,	Poole	5	4	4	3	17

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	15	Class	TE	Date	28.3.19	Time	11.15-1.15
Depart ment	Electrical Engg.	Sub	DEM	Faculty	P.R.C.	Batch	β,

Roll No.	Name of Student	Cumula tive Marks (140)	Exp		Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE20	KAPADANE AASHISH MUKUNDRAO	118	1		Agelk	5	4	4	3	16
TE21	KAWALE CHHAYENDRA VISHNU	106			Wats	5	4	4	3	16
TE22	KULKARNI MRUNAL DATTATRAYA	106			A CONTRACTOR	5	4	4	જ)	16
TE23	MALI SAMEEKSHA UMESH	114			Simali	151	4	4	4	17
TE24	MARATHE YASH UDAY	113			Dall	-5	4	4	4	17
TE25	MESHRAM RAHUL DAMODHAR	111			Pahul	5	4	4	2	15
TE26	MORKHANDE AVINASH SANGRAM	77	2	_	Ande	5	4	3	2	14
TE27	NAIKAWADI NIKHIL PRADIP	112	1		N bal	5	4	4	4	17
TE28	NANAWARE ASHUTOSH GOVIND	104			#2.	5	4	5	4	18
TE29	NARWADE MANISHA DEVRAO	99			Margarit	5	4	5	3	17
TE30	NAYKAWDI YOGESH ASHOK	121			181	5	4	5	5	18
TE31	NEMADE RISHIKESH RAJENDRA	114			OKO.	5	4	5	3	17
TE32	PADOLE AISHWARYA SHIVANANDRAO	117			peadok	- 5	4	4	7	17
TE33	PADOLE VAISHNAVI NILKANTH	119			andalo	5	4	5	3	17
TE34	PALASH SANJAY BOBADE	112			(H)	5.	4	4	3	16
TE35	PATIL PRITI VIJAY	111			Patil	5	4	4	4	17.
TE36	PATIL ROHAN GOPAL (78)	9/4/19		_	Atoti	2	2	2	2	8
TE37	PATIL URVESH SUBHASH	106			gul	5	4	4	4	17
TE38	PIMPARKAR POOJA HEMRAJ	97	$\bigvee$		Pool	5	4	4	2	15

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

	Week No.	16	Class	7	E		Date	4/4/19	Time	11.15	-1.15
	Depart ment	Electrical Engg.	Sub	$\vdash$		EM	Faculty	PRC	Batch	Į	3
A	Roll No.	Name of Student	Cumula tive Marks	E:	xpt No	Attd (sign)	Regularity & Punctuality (5)	Understand ing & Preparation for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
	TE20	KAPADANE AASHISH MUKUNDRAO	135		,	Als	5	4	4	4	17
	TE21	KAWALE CHHAYENDRA VISHNU	122			Ship	5	4	4	3	16
	FE22	KULKARNI MRUNAL DATTATRAYA	122			AL.	4	4	4	4	16
	TE23	MALI SAMEEKSHA UMESH	132.			Snali	5	5	4	4	18
	TE24	MARATHE YASH UDAY	131			Dal	- 5	4	5	4	18
	TE25	MESHRAM RAHUL DAMODHAR	128			Fahul	5	4	4	4	17
	TE26	MORKHANDE AVINASH SANGRAM 10/4	18			1000	3	4	4	3	15
	TE27	NAIKAWADI NIKHIL PRADIP (a) 4113	129			ound	4	۷1	4	5	17
	TE28	NANAWARE ASHUTOSH GOVIND	121	2		de la	5	4	4	4	17
	TE29	NARWADE MANISHA DEVRAO	115			Mensod	5	4	4	3	16
	TE30	NAYKAWDI YOGESH ASHOK	139			TIP	5	5	5	03	18
	TE31	NEMADE RISHIKESH RAJENDRA	081			dis	5	4	4	3	16
	TE32	PADOLE AISHWARYA SHIVANANDRAO	134		1	Model	5	4	4	4	17
	ГЕ33	PADOLE VAISHNAVI NILKANTH	136			Redate	5	4	4	4	17
	TE34	PALASH SANJAY BOBADE 10 419	129			91	2	h	-	4	17
	TE35	PATIL PRITI VIJAY	129			10ml	5	5	4	4	18
	TE36	PATIL ROHAN GOPAL	91			Saha	4	3	3	3	13
	TE37	PATIL URVESH SUBHASH	122			hall	4	4	4	7	16
	TE38	PIMPARKAR POOJA HEMRAJ	114	×	,	Pooja.	5	4	4	4	17



Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week						140	- 1
No.	4-	Class	TE	Date	09/01/19	Time	11.15-1.15
Depart					7.7		
ment	Electrical	Sub	DEM	Faculty	PRC	Batch	C

Roll No.	Name of Student	Cumula tive Marks	Expt No	Attd (sign)	Regularity & Punctuality (5)	Understandi ng & Preparation for Objective (5)	Participation in performance & conduction of Exp.	Post expt Skills (5)	Total (20)
TE39	PRADEEP BABU KUTE	18		Plut	5	5	4	4	18
TE40	PRIYA SANJAY MORE	18		Amore	5	5	4-	4	18
TE41	RAIPATREWAR AKANKSHA NITINRAO	20		Atantho	. 5	15	5	5	20
TE42	RAJE PRAJAKTA DHANANJAY	12		2000	5	3	2	2	12
TE43	RAMOSHI JYOTI BHAGWAT	17		FAB	5	5	4	3	17
TE44	RUTVIK CHINCHMALATPURE	16		Robullo	5	5	3	3	16
TE45	SALUNKHE PRASAD BABASAHEB	18	1	Barad	5	5	4	4	18
TE46	SANKPAL ROHAN UTTAM	16		83 cont	5	5			
TE47	SANYOG CHAMLATE NISHA	16	-	Army -	5	5	3	3	16
TE48	SARWADE PRATIKSHA SHAHURAJ	20	01	Thule	5	5	5		16
TE49	SHAIKH SAMEER SHAHADAT	17	,	154	. 5	5	3	5	20
TE50	SHINDE OMKAR ASHOK	17	$\rightarrow$	ARW.	5	5	3	<u> </u>	17
TE51	SHIRKE ASHISH GAJANAN	16	+	Davor	5	5	3	4	17
TE52	SHIVAM R CHAUBEY	12	+	-	5	3	2	3	16
TE53	SUTHAR DEEPAK JIVARAM	17		Dotu.	5	5	3	2	12
	THAKARE KANCHAN RAVINDRA	16	-	Bring	5	5		4	
	WAGHMARE MRUNALI BHAGVAN	16		Waghmare	5	5	3	3	16
	WAGHMARE SHAKUNTALA SHIVAJIRAO	17	1	Shekuntel	- 1	5	3	3	16

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	6	Class	TE	Date 23/1/19		Time	11.15-1.15
Depart ment	Electrical Engg.	Sub	DEM	Faculty	PRC	Batch	C

Roll No.	Name of Student		Cumula tive Expt Marks No (40)		Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE39	PRADEEP BABU KUTE (30)			Plub	3	4	3	2	12
TE40	PRIYA SANJAY MORE			8now	5	3	4	4	16.
TE41	RAIPATREWAR AKANKSHA NITINRAO		7	Honkin	5	4	3	4	16
TE42	RAIPATREWAR AKANKSHA NITINRAO  RAJE PRAJAKTA DHANANJAY			Maje	5	3	3 ,	3	14
TE43	RAMOSHI JYOTI BHAGWAT			FBB	ત	3	2	2	61
TE44	RUTVIK CHINCHMALATPURE			Rulind	5	3	3	2	13
TE45	SALUNKHE PRASAD BABASAHEB			Prosed	5	3	3	2	13
TE46	SANKPAL ROHAN UTTAM	(32)	01	3 great	5	4	4.	3	16
TE47	SANYOG CHAMLATE NISHA	(28)		Cas	3	3	3	3	2_
TE48	SARWADE PRATIKSHA SHAHURAJ	(37)		Jule	. 5	4	4	4	17
TE49	SHAIKH SAMEER SHAHADAT	(34)		(F)	. 5	4	4	4	17
TE50	SHINDE OMKAR ASHOK	(33)		Audoto	5	3	4	4	16
TE51	SHIRKE ASHISH GAJANAN	(31)		Burge	5	4	4	2	15
TE52	SHIVAM R CHAUBEY	(22)		AST.	3	3	2	2.	10
TE53	SUTHAR DEEPAK JIVARAM	(32)		Dans.	5	4	3	3	15
TE54	THAKARE KANCHAN RAVINDRA			Brohum	5	4	4	4	17
TE55	WAGHMARE MRUNALI BHAGVAN	(33)		Waghmare	_ 5	4	4	4	17
TE56	WAGHMARE SHAKUNTALA SHIVAJIRAO	(35)	J	2) halwatek	5	5	4	4	1g

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

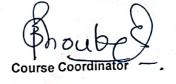
Week No.	7-	Class .	TE	Date	30/1/19	Time	11-15-1-15
Depart ment	Electrical Engineering	Sub	DEM.	Faculty	PRC	Batch	С.

Roll No.	Name of Student	Cumula tive Marks (60)	Expt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE39	PRADEEP BABU KUTE	40	<b>\</b>	Pluk	3	2	2	3	10
TE40	PRIYA SANJAY MORE	44		Frote	_3	2	2	ტ)	10
TE41	RAIPATREWAR AKANKSHA NITINRAO	53		Akenbo	. 5	4	4	4	17
TE42	RAJE PRAJAKTA DHANANJAY	40		PORT	5	3	3 .	<b>v</b> )	14
TE43	RAMOSHI JYOTI BHAGWAT	44	•	PBB	5	4	4	4	17
TE44	RUTVIK CHINCHMALATPURE	43	l	Rulinks	5	3	3	3	14
TE45	SALUNKHE PRASAD BABASAHEB	46	2	Rased	5	3	3	4	15
TE46	SANKPAL ROHAN UTTAM	48	j	Boul	5	3	4	4	16
TE47	SANYOG CHAMLATE NISHA	44		Jun77	5	3	4	4	16
TE48	SARWADE PRATIKSHA SHAHURAJ	53		July	5	જ	4	4	16
TE49	SHAIKH SAMEER SHAHADAT	51		amon	5	4	4	4	17
TE50	SHINDE OMKAR ASHOK	49		Thole	5	4	4	3	16
TE51	SHIRKE ASHISH GAJANAN	47		Aline	5	4	4	3	16
TE52	SHIVAM R CHAUBEY	36		A.	5	3	હ	3	14
TE53	SUTHAR DEEPAK JIVARAM	48		Donn	5	4	ও	4	16
TE54	THAKARE KANCHAN RAVINDRA	48		Barehem	5	3	3	4	15
TE55	WAGHMARE MRUNALI BHAGVAN	44		Waghman	_	3	3	2	11
TE56	WAGHMARE SHAKUNTALA SHIVAJIRAO	52	<b>V</b>	ahakunta	5	4	4	4	17

Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	8	Class	TE	Date	6/2/19	Time	11:540
Depart ment	Electrical	Sub	DĖM	Faculty	PRC	Batch	C

Roll No.	Name of Student	Cumula tive Marks ( &\d )	Expt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE39	PRADEEP BABU KUTE	57		Pluk	- 5	15	4	ფ	17
TE40	PRIYA SANJAY MORE	62		3moes	5	4	5	4	18
TE41	RAIPATREWAR AKANKSHA NITINRAO	70		Atonho	5	4	5	3	17
TE42	RAJE PRAJAKTA DHANANJAY	58		POPPE	5	4	5	4	18
TE43	RAMOSHI JYOTI BHAGWAT	54		FBF.	3	3	2	2	10
TE44	RUTVIK CHINCHMALATPURE	53	1	Rupuille	3	(P	2	2	01
TE45	SALUNKHE PRASAD BABASAHEB	62	2	Rasad	5	3	5	3	16
TE46	SANKPAL ROHAN UTTAM	65		Bourt	5	5	4	3	17
TE47	SANYOG CHAMLATE NISHA	61		Jany 1	121	4	5	(s)	17
TE48	SARWADE PRATIKSHA SHAHURAJ	72		July	5	5	5	4	19
TE49	SHAIKH SAMEER SHAHADAT	69			,5	4	5	4	18
TE50	SHINDE OMKAR ASHOK	66		Phile	5	4	4	4	17
TE51	SHIRKE ASHISH GAJANAN	64		Any	5	5	5	2	17
TE52	SHIVAM R CHAUBEY	52		tour	5	4	4	3	16
TE53	SUTHAR DEEPAK JIVARAM	65		Born	5	4	4	4	17
TE54	THAKARE KANCHAN RAVINDRA	65		Bankan	5	5	4	3	17
TE55	WAGHMARE MRUNALI BHAGVAN	61	is	Waghmare		4	5	3	17
TE56	WAGHMARE SHAKUNTALA SHIVAJIRAO	70	V	Muhinlale	5	4	5	4	18



Practical Continuous Assessment Sheet-2018-19 (Sem - II)

Week No.	11	Class	TE	Date	27/2/19	Time	11.15-1.15
Depart ment	Electrical Engg.	Sub	DEM	Faculty	P.R.C.	Batch	С

Roll No.	Name of Student	Cumula tive Marks	Expt No	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE39	PRADEEP BABU KUTE	73	1	Plus	5	4	4-	3	16
TE40	PRIYA SANJAY MORE	79		\$mon	5	4	5	3	17
TE41	RAIPATREWAR AKANKSHA NITINRAO	86		Atonho	-5	3	4	4	16
TE42	RAJE PRAJAKTA DHANANJAY	67		30 Dec	3	2	2	2-	9
TE43	RAMOSHI JYOTI BHAGWAT	70		PBF:	5	4	4	3	16
TE44	RUTVIK CHINCHMALATPURE	70		Future	-5	4	5	3	17
TE45	SALUNKHE PRASAD BABASAHEB	79	2	Prosod	5	4	5	3	17
TE46	SANKPAL ROHAN UTTAM	83	2	Sant	5	4	5	4	18
TE47	SANYOG CHAMLATE NISHA	78		Tout	5	૭	5	4	17
TE48	SARWADE PRATIKSHA SHAHURAJ	88		dule	5	4	4	3	16
TE49	SHAIKH SAMEER SHAHADAT	85		amy	<i>5</i>	4	4	3_	16
TE50	SHINDE OMKAR ASHOK	81		Aliche	5	3	4	3_	15
TE51	SHIRKE ASHISH GAJANAN	80		Assert	5	4	4	3	16
TE52	SHIVAM R CHAUBEY	68		Anny	5	3	4	4	16
TE53	SUTHAR DEEPAK JIVARAM	81		Duting	5	4	4	3	16
TE54	THAKARE KANCHAN RAVINDRA	82		Ogapon	5	3	5	4	17
TE55	WAGHMARE MRUNALI BHAGVAN	78		Waghmar	-5	4	5	3	17
TE56	WAGHMARE SHAKUNTALA SHIVAJIRAO	88	1	Shapank	5	4	5	4	18

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	14-		Class .	TE	Date	20/8/19	Time	1:12 11:12+0
Depart ment	Electrical	Engg	Sub	DEM	Faculty	PRL	Batch	C

Roll No.	Name of Student	Cumula tive Marks (120)	E	xpt Vo	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp. (5)	Post expt Skills (5)	Total (20)
TE39	PRADEEP BABU KUTE	91	1	^	Park	5	5	4	4	18
TE40	PRIYA SANJAY MORE	96			Broth	5	4	5	3	17
TE41	RAIPATREWAR AKANKSHA NITINRAO	104			Akanka	. 5	4	5	4	18
TE42	RAJE PRAJAKTA DHANANJAY	84			PROPUE	5	4	4	4	17
TE43	RAMOSHI JYOTI BHAGWAT	26			PBB	5	4	4	3	16
TE44	RUTVIK CHINCHMALATPURE (79)	25/3/19			Right	. 3	2_	2	2	9
TE45	SALUNKHE PRASAD BABASAHEB	97			Prosed	5	4	5	4	18
TE46	SANKPAL ROHAN UTTAM	101	0	n -	Sout	5.	4.	5	4	18
TE47	SANYOG CHAMLATE NISHA	95		1	Kany	5	4	5	3	17
TE48	SARWADE PRATIKSHA SHAHURAJ	108			Jule	5	5	5	5	20
TE49	SHAIKH SAMEER SHAHADAT	104		٧	anest	5	5	5	4	19
,TE50	SHINDE OMKAR ASHOK	97			Alika	5	4	5,	4	\ \8
TE51	SHIRKE ASHISH GAJANAN	98			Dine	5	4	5	4	18
TE52	SHIVAM R CHAUBEY	86		9	turn	5	5	4	4	18
TE53	SUTHAR DEEPAK JIVARAM	99			Edm	5	4	5	4	18
TE54	THAKARE KANCHAN RAVINDRA	100			Outster	5	:4º	5	4	81
TE55	WAGHMARE MRUNALI BHAGVAN	96			Waghmar	5	4	5	4	18
TE56	WAGHMARE SHAKUNTALA SHIVAJIRAO	107-	\		Shekuntal	5	5	5	4	19

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	15	Class	TE	Date	27/3/19	Time	11.15 to
Depart ment	Electrical Engg.	Sub	DEM	Faculty	PRC	Batch	<b>C</b> .

Roll No.	Name of Student	Cumula tive Marks (140)	Ex N	•	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp.	Post expt Skills (5)	Total (20)
TE39	PRADEEP BABU KUTE	108	1	\	Dule	5	4	5	3	17
TE40	PRIYA SANJAY MORE	112			Boote	5	5	5	3	18
TE41	RAIPATREWAR AKANKSHA NITINRAO	122			Aranthe	5	5	5	3	18
TE42	RAJE PRAJAKTA DHANANJAY	100			mig	5	5	4	2	16
TE43	RAMOSHI JYOTI BHAGWAT	104			ABB .	5	5	5	3	18
TE44	RUTVIK CHINCHMALATPURE	92	۲	)	Lugue	5	3	3	2	13
TE45	SALUNKHE PRASAD BABASAHEB	113			Dag	5	4	4	3	16
TE46	SANKPAL ROHAN UTTAM	117			Sept.	5	4	4-	3	16
TE47	SANYOG CHAMLATE NISHA	110			Court	5	4	4	2	15
TE48	SARWADE PRATIKSHA SHAHURAJ	125			Deck	5	4	4	4	17
TE49	SHAIKH SAMEER SHAHADAT	122			(SZW)	<u></u> 151	<b>l</b> 5	4	4	18
TE50	SHINDE OMKAR ASHOK	125			Bide	<b>!</b> 9	t	4	(4)	16
TE51	SHIRKE ASHISH GAJANAN	114			Burna?	5	4	4	3	16
TE52	SHIVAM R CHAUBEY	100			to 2	5	ઉ	3)	3	14
TE53	SUTHAR DEEPAK JIVARAM	11.5			Birm	5	4	4	3	16
TE54	THAKARE KANCHAN RAVINDRA	117			Barchan	5	4	5	3	17
TE55	WAGHMARE MRUNALI BHAGVAN	112			Waghpare	- 5	9	4	3	16
TE56	WAGHMARE SHAKUNTALA SHIVAJIRAO	124	\	1	Shokuntu	5	4	5	3	17.

Course Coordinator

## Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	16	Class .	TE	Date	3/4/19	Time	11.12451.12
Depart ment	Electrical	Sub	DEM	Faculty	PRC	Batch	C.

Roll No.	Name of Student	Cumula tive Marks ( 160 )	E	kpt lo	Attd (sign)	Regularit y & Punctual ity (5)	Understan ding & Preparatio n for Objective (5)	Participation in performance & conduction of Exp.	Post expt Skills (5)	Total (20)
TE39	PRADEEP BABU KUTE	124	1	`	Omp	5	4	4	3	16
TE40	PRIYA SANJAY MORE	129			From	5	4	4	4	17
TE41	RAIPATREWAR AKANKSHA NITINRAO	138		2	Hanhe	5	4	4	3	16
TE42	RAJE PRAJAKTA DHANANJAY	117			P.D. Park	5	4	4	4	17
TE43	RAMOSHI JYOTI BHAGWAT	122			FBB	.5	4	5	4	18
TE44	RUTVIK CHINCHMALATPURE	107			Rafull	5	3	3	4	15
TE45	SALUNKHE PRASAD BABASAHEB	129			erasad	5	4	4	3	16
TE46	SANKPAL ROHAN UTTAM	134	7	-	Sport	5	4	4	4	17
TE47	SANYOG CHAMLATE NISHA	126			Lavis	5	4-	4	3	16
TE48	SARWADE PRATIKSHA SHAHURAJ	14-2			Jule	5	4	5	3	17
TE49	SHAIKH SAMEER SHAHADAT (133)	4/4/19			15	-3	3	3	2	11
TE50	SHINDE OMKAR ASHOK	141			ACAL .	5	4	4	3	16
TE51	SHIRKE ASHISH GAJANAN	130			Phone	. 5	4	4	3	16
TE52	SHIVAM R CHAUBEY	110		7	tog:	3	3	2	2	01
TE53	SUTHAR DEEPAK JIVARAM	132			1 June	5	4	4	4	17
TE54	THAKARE KANCHAN RAVINDRA	133		(	Horaly	·5	4	4	3	16
TE55	WAGHMARE MRUNALI BHAGVAN	128			Vaghmar	-5	4	9	3	16
TE56	WAGHMARE SHAKUNTALA SHIVAJIRAO	140	١	1	Shakunta	5	4	4	3	16

Course Coordinator

## Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.	08.	Class	TE	Date	4/2/19	Time	11:15
Depart ment	Information Technology	Sub	SL – VI	Faculty	NSD	Batch	A

Roll No.	Name of Student	Cumulative Marks ()	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certificat ion(2)	Total (10)
TI01	Amrutkar Ashutosh Madhav	40	'A	Antosy	2,	4	2	16
TI02	Balsekar Raj Deepak	30	739/	Stann !	2	4	2	10
T103	Bhagwat Kruttika Rahul	30	10	400	2,	4	2	10
T104	Biradar Sachin RamRao	40	de	SIZ	2	4	21	10
T105	Bobde Sameer Dnyaneshwar	40	0.	503	2	4	2	10
T107	Chincholikar Salil Dhananjay	20	ASN	And	2	4	2	10
TI08	Dasalkar Vinay Vishwanath	20	No.	Contre	2	4	2	10
T109	Dawane Rushikesh Ganesh	50	019	FIGH	2	4	2	10
TI10	Desai Manasi Dattatray	50	6	Monago	2	4	2	10
TI11	Gadikar Akansha Uday	30	11	Madirax.	2	4	2	10
TI12	Gautam Shivani P.	30		fare	2	4	2	10
TI13	Gokhale Omkar Subodh	40	MAN .	Thethale	02	4	21	10
TI14	Gore Vrushali Chandrakant	50	<	Thorse	2	4	2-	10
TI15	Gundapwar Rashi Nandkishor	Co	7 7	Keyfot	2	4	2	10
TI16	Joglekar Harsh Bhalchandra	40	4/19/	AB	CLA	_	_	_
TI17	Joshi Anurag A	30			02			
TI18	Karanjkar Ajinkya Santosh	50		(ASK)	- 2	4	21	10
TI19	Karve Om Subhash	20		(Xav)	1 2	4	2	10
TI20	Kirve Varsha Bholannath	50		400	2	4	21	10
TI21	Kulkarni Tanmayee Vivek	40	THE STATE OF	farmas	2	4	2-	10
TI22	Kulkarni Tejas Milind	10	11	AB	0	_		
TI25	Mane Vaibhav Sanjay	50		born	2,	9	2	10
TI26	Morajkar Pratima Pravin	40		AMUR,	2	4	2	10.
			X			A		

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Course Coordinator

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

Week No.		Class	TE (A)		Date*	11/01/19	Time	1-3
Department	MECHANICAL	1			Faculty	GRC	Batch	A2
Roll No.	Name of Student	Cumulative Marks ( )	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certification(2)	Total (10)
TMA125	PRAVIN RAMCHANDRA GHODAKE			Trans	2	2	2	
TMA126	SAGAR BHAUSAHEB GHUTE			(thite.,	2		2	
TMA128	ROHIT HIMANSHU GUPTE			Cell	2	2	2	0
TMA133	NUPOOR MANOJ INGOLIKAR		23 CUSTOD	Muroos	2	1	2	X
TMA135	ATHARV SANJAY JAGTAP		01)	Jares	2		1	8
TMA136	SANKET PRAKASH KADAM		2 stage	dens	2	3	2	8
TMA138	INDRAJEET UDAY NIKAM		40	Trail for	2	3	2	8
TMA139	ROHAN SANJAY KATORE		Single	18 hore	2	2	2	7
TMA141	CHINMAY MUKUND KULKARNI		Stage gear	a second	2		2	7
TMA142	HARSHAL MANGESH KULKARNI		gear -	Train -	2		2	7
TMA144	SHREYES PRASHANT MAMIDWAR		yox.	Struck	1	2	2	7
2 TMA145	ADITYA MAHESH MANE			think m	2	. 3	1	8'
3 TMA146	AKSHAY SHIVAJI MANE		1	1) Harley	2	2	2	8
4 TMA147	SHRIDHAR KRISHNA MYAKAL			AKUSh	1	2	2	1
5 TMA151	AKASH MANOJ SHIRODKAR			AME	2		2	7
6 TMA152	AMEY MILIND KULKARNI			Foreign	2	2	2	3
7 TMA153	SHREYAS SUYOG NAIK			THE	2	3		. 0
7 TMA154	AKSHAY RAHUL GADIA		-	21	1	2	3	8
TMA155	SANDESH RAMDAS GAJARE			Kentel	1	2		10
TMA156	PRATIK ANIL DIXIT			phavan	2	2	2	
TMA157	NEHA PRAKASH CHAVAN			Though	1	2_	2	7
TMA158	HIMANI MAHESH LIMAYE			TREE	2			+
TMA158	VAIBHAV ANIL KOKARE			-,-				
TIVIA 159	77.11							
							(2)	
	May 1						C C	
	MARIE						Course Coordinat	or

#### Practical Continuous Assessment Sheet- 2018-19 (Sem - II)

		Class	TE (A)		Date	18/01/19	Time	1-3
Department	MECHANICAL				Faculty	GRC	Batch	A2
Roll No.	Name of Student	Cumulative Marks ( )	Expt No	Attd (sign) (2)	Preparation (2)	Participation in Conduction of Lab (4)	Post expt Quiz/certification(2)	Total (10
TMA125	PRAVIN RAMCHANDRA GHODAKE			Leginos	2	3	2	9
2 TMA126	SAGAR BHAUSAHEB GHUTE			Phile.	2	2	2	8
3 TMA128	ROHIT HIMANSHU GUPTE			W.	2	2	2	7
4 TMA133	NUPOOR MANOJ INGOLIKAR			MUKOOD	2	/	2	
5 TMA135	ATHARV SANJAY JAGTAP		Deep D	dangap	2		2	- 6
6 TMA136	SANKET PRAKASH KADAM		201911	anne	2	2	2	2
- TMA138	INDRAJEET UDAY NIKAM		project	Livilar	2	2		
8 TMA139	ROHAN SANJAY KATORE		' )	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	2	2	7
o TMA141	CHINMAY MUKUND KULKARNI			The state of the s	2	2	2	6
0 TMA142	HARSHAL MANGESH KULKARNI			Thomas	2		2	8
TMA144	SHREYES PRASHANT MAMIDWAR			A CONTRACTOR OF THE PARTY OF TH	2	2	>	8
2 TMA145	ADITYA MAHESH MANE			dual.	2	3	1	8
3 TMA146	AKSHAY SHIVAJI MANE .			Organica Co		2	2	8
TMA147	SHRIDHAR KRISHNA MYAKAL			Kastz	2	2	2	5
	AKASH MANOJ SHIRODKAR			ARE	1	2	2	
	AMEY MILIND KULKARNI				2	3	2	9
	SHREYAS SUYOG NAIK			Smale	2	2	1	7
	AKSHAY RAHUL GADIA				2	2	2	8
	SANDESH RAMDAS GAJARE			Pentil	2	2	T	7
INA	DOM'T			maran	2	2	2	5
-	PRATIK ANIL DIXIT			10 93				
TMA156	PRATIK ANIL DIXIT NEHA PRAKASH CHAVAN			Somore	0 -		/	0
TMA156 TMA157				Manage,	2-	0	2	6



#### Marathwada Mitramandal's

#### **COLLEGE OF ENGINEERING**

S.No.18, Plot No.5/3, Karvenagar, Pune-411 052

Accredited with 'A' Grade by NAAC

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Recipient of 'Best College Award 2019' of SPPU

Recognized under section 2(f) and 12B of UGC Act 1956

### **Internal Assessment**

MOCK Practical/Oral Time Table

#### Marathwada Mitra Mandal's

## COLLEGE OF ENGINEERING, PUNE

Accredited with 'A' Grade by NAAC

#### Mock Practical/Oral Time Table Academic Year 2018-19

Name of Subject	Date/Time	11/10/18	12/10/18	13/10/18
	9 am to 12 pm		SE(B): DL	SE(B) : PL
DEL	11 am to 2 pm			<i>32(B)</i> . 1 2
	1 pm to 4 pm		SE(C): DL	SE(A) : DL
0001 /	9 am to 12 pm	NA	NA	NA
OOPL (onlline exam)	11 am to 2 pm	NA	NA	NA
	1 pm to 4 pm	SE(C): PL	SE(A): PL	
	9 am to 12 pm	BE(A): CL VII	TE(A): SL-I	TE(A): SL-II
PL	11 am to 2 pm			· _(/ · // · O2 //
	1 pm to 4 pm	BE(B): CL VII	TE(B): SL-I	TE(B): SL-II
	9 am to 12 pm			12(2): 32 11
RL .	11 am to 2 pm	BE(C): CL VII	TE(C): SL-I	TE(C): SL-II
	1 pm to 4 pm			12(0): 02-11
	9 am to 12 pm			
Tut Room	11 am to 2 pm		BE (All batches):	
	1 pm to 4 pm		CL VIII	
	9 am to 12 pm	NA	NA	NIA
BDA (online exam)	11 am to 2 pm	NA	NA	NA NA
	1 pm to 4 pm		IVA	NA
	9 am to 12 pm	SE(A): OOPL		05(0) 655
Lab 503	11 am to 2 pm	3 4 7 9 9 1		SE(C): OOPI
	1 pm to 4 pm	SE(B): OOPL	A STATE OF THE STA	



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Dr. V. S. Bidve **HOD, IT** 



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#### **Internal Assessment**

Assignments

#### Marathwada Mitra Mandal's College of Engineering , Karvenagar,Pune Department of Computer Engineering

#### Assignment No. 4

Academic Year: 2018-19 (SEM I) Subject &Class: DBMS, T.E. Comp

CO Attained: CO4

"Student will be able to explain transaction Management in relational database System"

Date: 22/8/18

#### Batch A

- **Q 1)** Explain the concept of transaction and its ACID properties.
- **Q** 2) Sketch the state diagram for transaction and describe in brief.
- **Q** 3) State two good reasons for allowing concurrency in transaction processing.
- **Q4)** Differentiate between serial schedule & conflict serializable schedule with example.
- **Q** 5) Illustrate with diagram how query processing is done for DBMS.

#### Batch B

- **Q 1)** Write a short note on precedence graph and topological sorting.
- **Q** 2) Explain two phase locking protocol.
- **Q 3)** Write the methods by which we can do performance tuning of SQL(** refer Ch 11, Peter Rob, Carlos coronel seventh edition, p.436)
- **Q 4)** Explain tree protocol in detail.
- **Q 5)** Justify why deadlocks should be prevented in DBMS by elaborating deadlock preventing algorithms.

#### Batch C

- **Q 1)** Write a short note on recoverable & cascadeless schedules.
- **Q 2)** Justify why deadlocks should be prevented in DBMS by elaborating deadlock preventing algorithms.
- **Q** 3) Write Thomas' Write rules & explain in detail.
- **Q 4)** Explain phantom phenomenon. (** refer 15.8.3 of Korth p. 699)
- **Q 5)** What could be the reason for cascaded abortions of the transactions, justify with suitable schedule

#### Batch D

- **Q 1)** Explain snapshot isolation in detail.
- **Q 2)** Explain the concept of multiple granularity in detail.
- **Q** 3) Explain optimistic method(validation based protocol) in detail.
- **Q** 4) Explain with diagram the process for query processing
- **Q** 5) Justify the importance of indexes for tuning the performance of querying.

Reference: Korth & Sudarshan, 6th Edition, Peter Rob, Carlos coronel, 7th Edition

**Course Coordinator** 

Prof. Pradnya Mehta

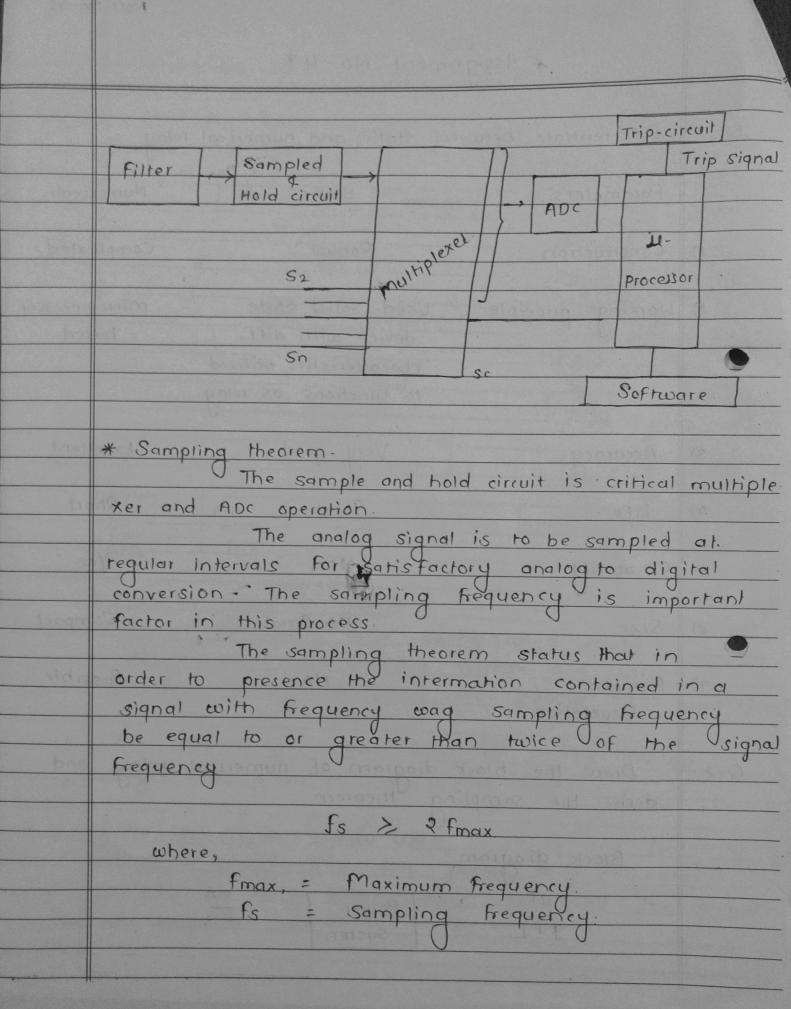
Date of submission: 29/8/18



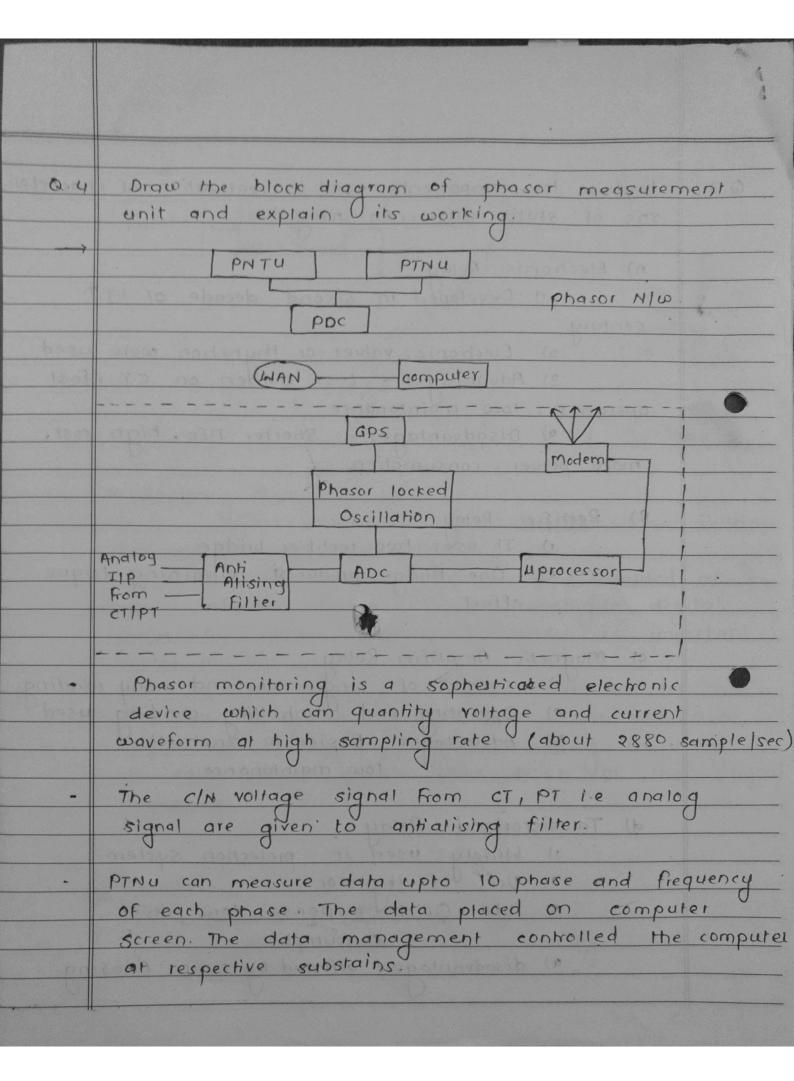
Nar	ne	Purane	Omtar Ra	jaram	
				Roll No	48
			Ass	signment No	4
	Sul		<b>chgear and I</b> 2018-19 (BE-S	,	
Dimension	Slight (L	ow-1)	Moderate (Medium-2)	Substantial (High-3)	Score
Regularity and punctuality	submitt late.	ed one week	submitted later than scheduled date with permission.	submitted as per schedule.	2
Reasoning and Analysis	irreleva incomp	nt and lete answers,	some answers correctly justified, an important reason(s) overlooked.	Clear and accurate answers; insightful andspecific.	3
Focus on Topic	answers	v of the relates to gned subject ns.	Answer are not as detailed and/or concise as needed; use limited course vocabulary.	Answers address the questions clearly and fully, showing higher uses of course vocabulary.	2
Organisation	hard to question stated b	ns are not perore s; format are not	Enough errors to distract the readers; organitation problems; questions of stated before answers; and/or format difficult to navigate.	Use of correct grammar, spelling, and punctuation; well organised; one idea follows another in a logical sequence with clear transitions; questions stated before answers; format easy to navigate.	3
				Total	10

Faculty: Dr.V.N.Gohokar	Signature with date:	16/6/19
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			1011 110 48
	n Acolo	Dmant 110-44	
	* 13519	nment No-4*	
0.1	. Differentiate between	en static and numerical	relay
		Sampled 11	U
	Parameters	Static	Numerical
1)	Construction	Robust	Complicated
	(25)-819(1)	1970	
2)	Working principle	Used solid state	microprocessor
	O '	device with diff.	based.
	1226200	characteristics utilized	
	2009672	to functions as relay.	
-			
3)	Accuracy	Very good.	Excellent
41000000	15 4 16 19 V	Man San Variable part M	
4)	Life	Short	Short
103	bala may set of set	Jeapla polone of	·
5)	Reliability.	No	Yes
landa	ingi si V paranga	parto Year and the me	32 19 V 1955
6)	Size	Mo Small	Compact
	as tolk fishers as	The ampling theore	
7)		No.	Possible
	Seperation	post posuped dis-	temps
Boop AV	set 16V sount a	nd to or quester the	t he eas
Q. 2	Draw the block	c diagram of numerica	1 relay and
	derive the sampli	ing theorem.	9
	¥00	0	
	Block diagram		(5)(10)
	cT	C.B	
	m	Power	
	7 -	System	



Q.3.	Explain the components used in realization of characters
	stic of static differential relay.
>	V.
	A) Electronic Relay-  i) Developed in second decade of 19th
	1) Developed in second decade of 19th
	century.
	2) Electronic valves or thyratron were used.
	3) Advantages - Less burden on C.T. , fost
7	operation, low maintanance
	4) Disadvantages - Shorter life, high (081,
	more power consumption.
	G-Wood Control of the
	8) Rectifier Relay-
	1) It uses two rectifier bridge
	2) One bridge produced retraining torque
	· effect.
	c) Magnetic Amplifier Relay.
•	1) consist of single core and many winding
	e) Operating and controlling winding used.
1919000	8) Advantages - Easier to construct,
	10w maintanance.
	-1. The solitage signal from CE, PT to anato
	d) Transistorized Relay
	11 Widely used in protection system.
	2) Use of Hhytistor
	3) Adv. Quick response, low power
10000	consumption.
-	4) disadvantage - affected by temp, Aliasing.



Nar	ne Sarwade	Pratiksha S	shahuraj	
			Roll No	TE48
			Assignment No	05
	Sub:	Utilization of Electri	cal Energy	
	А	CY - 2018-19 (TE-S	SEM-ID	
Dimension	Slight (Low-1)	Moderate (Medium-2)	Substantial (High-3)	Score
Regularity and punctuality	Submitted one week late.	Submitted later than scheduled date with permission.	Submitted as per schedule.	3
Reasoning and Analysis	Irrelevant and incomplete answers.	Some answers correctly justified, an important reason(s) overlooked.	Clear and accurate answers; insightful and specific.	3
Focus on Topic	Very few of the answers relates to the assigned subject questions.	Answers are not as detailed and/or concise as needed; use limited course vocabulary.	Answers address the questions clearly and fully, showing higher uses of course vocabulary.	3
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			Total	12

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		$M \perp$	
Faculty: Mr. S. M. Harite	Signature with date:	plak.	

244/19

## Assignment - 5

M.M.C.O.E.

Page No.: [] Date:

	and the state of t
<b>ි</b>	An electric train has quadrilateral speed time curve as follows:
	1) Uniform acceleration from rest at 2 kmphps for
, , , , , , , , , , , , , , , , , , ,	30 seconds ii) costing for 50 sec.
	If the train is moving up gradient of
	10/1000 train resistance is 40 Nitonne, rotationa
	inertia is 10 % of dead weight and duration of stop is 30 sec Find she schedule speed?
	Given:
	d= 2kmphps
	$t_1 = 3$ osec
	$t_2 = 5 \text{osec}$ $t_2 = 2 \text{osec}$
	$t_3 = 2050c$ $G_1 = 1$ $\begin{cases} 10/1000 = 0.01 = 1^{1/3} \end{cases}$
	r = 40 NItonne
ndia	FT = . 277.8 We a ± 98.1 WG + Wr
AB.	For Coasting FT = 0
	We = 1.1 × W (-Bc)
	·· 0 = 277-8 × 1.1 × W (-βc) + 98.1 + W×1 + W(40)
	277·8 βc = 98-1+40
24, 1,	1. Bc = 0.452 kmphps
	No. of the second secon
	$t_2 = \frac{V_1 - V_1}{Bc}$ $t_1 = \frac{V_1}{C}$
	,
	$50 = 60 - V2$ $V_1 = 30 \times 2$ $V_1 = 60 \times m / phr$
	VI 35.2/F.m

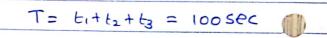
Page No.: \2 Date:

" V2 = 37.4 km/hr

$$S = \frac{1}{2} \times V_1 \times \frac{t_1}{3600} + \left[ \frac{V_1 + V_2}{2} \right] \times \frac{t_2}{3600} + \frac{1}{2} \times \frac{V_2}{3600} \times \frac{t_3}{3600}$$

$$= \frac{1}{2} \times 60 \times \frac{30}{3600} + \left[ \frac{60 + 37.4}{2} \right] \times \frac{50}{3600} + \frac{1}{2} \times \frac{37.4 \times 20}{3600}$$

$$S = 1.03 \text{ km}$$



: Shedule speed Vs = 5x 3600 T + Stop time

100 + 30

Vs = 28-52 km/hr

O. Define the term coefficient of adhesion and specific energy consumption.

The tractive effort can be increased by increasing the torque of motor. However, there is limit upto which the tractive effort can be increased. After that limit even if torque of motor is increased, the tractive effort does not increased. but causes slipping of driving wheel on track.

It has been found that the maximum value of tractive effort Ft at which driving wheels will not suip depends upon the dead weight W over the driving axle.

Page No. : 3 Date :

	The relationsheep between tractive effort and
	dead weight is given by.
	Ft = 1000 W.
	Ft = 1000 W.
	Ma = Ft
	9.81 (WOOOI) 18.E
	= Maseinum tractive effort that can be applied
	withow slipping of wheels Adhesive weight.
	Adhesive weight.
	where,
	Ft = Total tractive effort in newton
	W = Dead weight on axles in tonne
	(+ tonne = 1000k
	Ma = coefficient of adhesion (NO(1)
	Na A
	seep in kmph
	Fig: Variation of co-efficient of adhesion
	with speed.
	Thus in order to increase tractive effort it
	is just not sufficient to increase the torque
. 1	or HP of traction motor alone but at the
2	same time weight on driving axle has to be
	increased. No decreases with increase in speed.

# M.M.C.O.E. Page No.: IA Date:

	ii) specific energy consumption 8-
	In case of electric traction, the tractive power is obtained from electric motors.
	output.  Motors Gleaning wheels  System
	The output available at the wheels is avaluated by considering following factors.
	i) Power lenergy required for overcoming gravity comp ii) energy required for acceleration iii) energy required for train resistance
	once the output is known, the input can be obtained by considering efficiency of motor and gearing system. If this efficiency is known we can find input power or energy
	i.e. output = Input.  This input is known as specific energy
	Consumption   Specific input power.
	specific energy output: Energy output in watt. hrs  (weight of train in tonne)+(Distance  of run in km)
	epecific energy = Specific energy output at driving axles consumption overall efficiency of motors and gearing.
Se v	

Page No. : | 5 Date :

ଚି.	An electric train weighing 450 tonnes has to
	maintain an average speed of 40 kmph between
	two stations 3 cm apart on an incline of 1
	in 200. The train accelerates at 24mphps and
	retards at skmphps. The tractive ef resistance
	is 5kg per tonne and allowance for notational
	inertia is so y. Assuming a trapazoidal speed
	time curve Find the energy consumption for the
1	run while going up the incline. The overall
	efficiency may be take as 65%.
	U d
$\rightarrow$	Giveo:
	W = 450 tonne
	Va = 40 kmph
	S = 3 km
	$G1 = \frac{1}{200} \times 100^2 0.5^{1/2}$
	200
	V a = 2kmphps
	B = 3kmphps
	r = 5kg Itonne = 49.05 N Itonne
	$\eta = 65^{\gamma}$
	Duration of Run = 3600 XS
	$\sim$ a
	= 3600 X3
	40
	= 270 Second.
1 2	
, S. H.	K = 1 4 1
	2d 2B

	M.M.C.O.E. Page No.: (C Date:
	= -1 + 1 2×2 2×3
	K = 0.42
	Maximum speed = $V_{m2} = T - \left(\frac{T}{2k}\right)^2 - \frac{1}{2k}$
	$= 270 - (270)^{2}$ $2 \times 0.42 - (2 \times 0.42)^{2}$
7 mm	= 42-857 kmph
	$t_1 = V_m = 42.857 = 21.425ec$
	$t_3 = \frac{V_m}{\beta} = \frac{42.857}{3} = 14.2856 \text{ Sec.}$
	$t_2 = T - t_1 - t_3$
	= 270 - 21.42 - 14.2856
	t2 = 234.294 sec

$$= 270 - 21.42 - 14.2856$$

$$t_2 = 234.294 \text{ sec}$$

36005

3600×3 0-42

(1)

277.8 We x + 98.1 WG + Wr = 277.8 × 1.1 × 450 ×2 + 98.1 × 450 × 0.5 + 450 × 22072.5 + 22072.5 275022+ 49.05 Ft = \$19167 N

Me sim um energy output = Total Vm Ft' Voo \$600 3600 3600 3600 Cohere

Page No. : 17 Date :

	Να
	Specific energy consumption =
	Chegg consumption
	0.01072 We Vm + 0.2778 [98.16+8]51
	Wxsxm Sxm
	= 0.01072 He1.1/m + 0.2778 [98.161+8] S1
	W x s x m s x m
	$S_1 = S^1 + S^1$
	$=$ $Vm \cdot t^2 + Vm$
	3600 2x3600+x
	$= 43 \times 234.294 + 43^2$
	3600 2×3600×2
	= 2.927.
10	
	:.S.E.C. = 0.01072 × 1.1 × 432 + 0.2778 × 2.927 [98.1 × 0.5 + 49.0]
	3 × 0 · 65 3× 0· 650
	S.E.C. = 52.087 whitonnelkin
V	

# M.M.C.O.E. Page No.: 19 Date:

	-: total energy output =
	1 x 18 319167 x 42.857 + 21.42 + 44145 x422 3600 3600 3600
	× 234.294
	3600
	= 1934. KWh
	Total energy consumption = 1934
	0.65
	= 2975.38 kwh
	Specific energy consumption = total energy consumption in well
	weight of train x distance of in hours run in km
L.	in hours run in kin
	= 2975.38 x103
,	4 sro × 3
	= .2203.98 wh I tonne-km
<b>a a</b> .	Derive the expression for specific energy output
	on level track using simplified speed time curve.
<b>=</b>	
	speed A B Assumptions =
	Train is upgradient
	Consider trapazoidal
	Speed time curve.
	trane
	(Sec)
	Total energy olp = Energy Required + energy required
	required during Run during acceleration during free run
4 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Page No. : 20 Date :

	= Average power reqd during accel " x accel " period t Avg power reqd during free run x duration of fee run
	Total energy old red = 1 ft x Vm t1 + ft' x Vm t2 : kwh
	Et = tractive effort regd during free run  Ft = tractive effort.
	ti= 0 distance by the distance
	= 1 Ft x vm x vm + Ft x s' rwh 3600 x 3600 x 3600
	= 2 3600 d [277.8 Wex+98.1 Wa + Wr] + S' [98.1 WG1+
	= 1 Vm x1000 [277.8 Wex +98.1 Wa + Wo] + 5 x1000 [98.1 WG1+ 2 (3600) 2 x 3600 WET #1
	= Vm x1000 x277.8 Wex + 98.1 Wa + Wr Vm x1000 + 5x1000 Wh
	= 0.01072 Vm We +98.1 Wq + Wo S' ×1000 + S' ×1000 Wh
	Vm = distance travelled by train during = (3600) a acceleration = s"
	$S^{11} = \frac{1}{2} \times V_{m} \times \frac{V_{m}}{360000} = \frac{1}{2} \frac{V_{m}^{2}}{(3600)^{9}}$
	Total energy = 0.01072 $V_m^2$ Ne + 0.2778 [98.1WG + Hr]  OIP regd (S"+s) wh
$\sim$	5'' + 5' = 5
and the second	Specific energy Olp = Total energy olp redd whitom Wx & S /km.
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	

Page No. : 24 Date :

:. Specific energy 0110 =
0.01072 We vo + 0.2778[98.1 WG+Wr]SI whitennelson
μοω,
Specific energy consumption = specific energy off
= whitomelian.
m = efficiency of motors & gears.
 5.E.C. = 0.01072 We Vo + 0.2778[98.1 WG+H0]SI W XSXM WXSXM
W xsxm Wxsxm
S.E.C. = 0.01072 We Vin + 0.2778 [98.1 G + 0] S1
WXSXM SXM
1 Clahi
2/a/1
1

Name Siddhi . S. Hukkerikar	
Roll No	16
Assignment No	0.5

Sub: Utilization of Electrical Energy

ACY - 2018-19 (TE-SEM-I)

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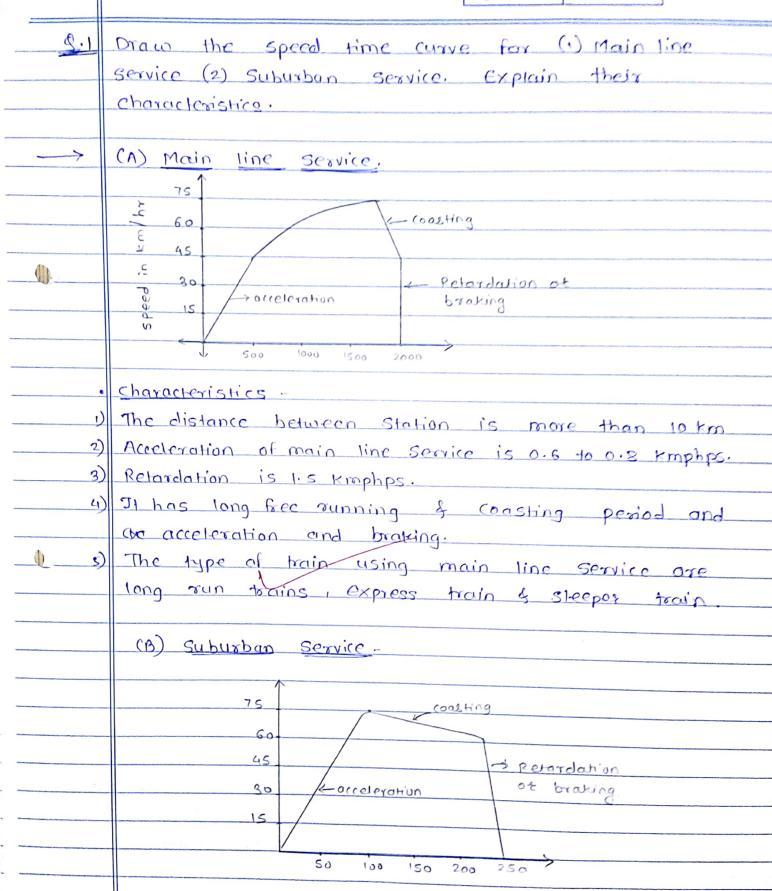
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Dimension	Slight (Low-1)	Moderate (Medium-2)	Substantial (High-3)	Score
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			Total	1)

Faculty: Mr. S. M. Harite	Signature with date:	Dal	
		116/4/19	

Page No.; | Date:

23



Page No.:

Date :

	Characteristics:
()	Distance between Station 1 to 8 km.
2)	Acceleration for at Suburban Service is 1.5 to 4 kmphps.
3)	Retardation for Suburban Service is 3 to 4
	There is no free running, period, coasting is
ક્	Types of trains in Suburban Service are local train by Short elistance Shuffle train.
9.2	what is meant by scheduled speed of train and what are factors that affect the schedule speed of train?
$\longrightarrow$	Schedule Speed :
	It is ratio of distance between
	the stops and the total time taken including time for Stops to cover the distance.
$\vee$	Schedule Speed = Distance between the Stops  (Actual time of run) + (stop time).
	The factors affecting Schedule Speed are,  (1) Crest Speed.
	It is ratio of distance between the
	Steps & the total time including time for Stap
	to Cover the distance, High cost speed results
	Into increase in Schedule Speed. As
	acceleration and returdation are fixed,

then the for Constant distance. It actual run time decreases then schedule speed increases. @ Acceleration -If distance return the two station and Corest Speed are Constant then increases in acceleration will reduce the running time of train. Thus increases in acceleration will increase Schedule Speed. This is Considerable if distance between Station is Small. 3 Braking Retardah -Similar to acceleration effect of braking retardation is to increase schedule speed. This is considerable if distance between Station is Small. 1 Ouration of Stop -If etgration of stop is more total running time will be more and schedule speed is low. For a given average speed the speed ceil duration. Variation in duration of stop will affect schedule speed more in case of urban and suburban service. Which have shorter distance run duration of Stops is also very small. A suburban electric train has man. speed of 9.3 72 kmph. The Schedule speed including step of 25 seconds is 46 kmph: If acceleration is

1.8 kmphps. Find the value of retordation when average distance between 5top in 2.5 km. Given: Ym = 72 kmph, schedule speed = 45 kmph. d = 1.8 kmphps., s = 2.5 km, stop time = 25 sec. 3017 -Schedule time = 3600 s Schedule speed = 3600 x 2.5 = 200 seconds. Actual time of oun = T = (schedule time) - (Stop time) = 200 - 25 T = 175 sec. We know that,  $\frac{1}{2\alpha} = \frac{1}{2\beta} - \frac{1}{2\beta} = 0$  $72^{2} \left[ \frac{1}{(2 \times 1.8)} - \left( \frac{72 \times 175}{2 \beta} \right) + \left( \frac{3600 \times 2.5}{2 \beta} \right) = 0$ B+3.6 = 4.166 3.68 B +3.6 = 15B 3.6 = 143 B = 0.257 kmphps.

Nam	e Poojo H	emtoj Pi'm		38
			Roll No	
			Assignment No	5
	Sub: U	Itilization of Electric	cal Energy	
	Ą	CY - 2018-19 (TE-S	EM-I)	
Dimension	Slight (Low-1)	Moderate (Medium-2)	Substantial (High-3)	Score
Regularity and punctuality	Submitted one week late.	Submitted later than scheduled date with permission.	Submitted as per schedule.	3
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Faculty: Mr. S. M. Harite	Signature with date:	15/	

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Page No. : Date :

10	An electric train is to have acceleration and
	brocking tetordation of 0.8 km Phls and 3.2 km/h/s
	respectively. If the totio of maximum to overage
	speed is 13 and time for stops 25 seconds, find
	schedule speed For of 1.5 Fm. Assume simplified
	tropezoidal speed time curve.
Ans:-	Let the actual time of tun be T geronds,
410	x = 0.8 km/h/s
	B = 3.3 Km/P/h
	Vm = 1.3
	Vo
	9:1.51 <m< th=""></m<>
	V5 · 9
	Avg. Speed (Va) = 36005 = 3600 × 1.5 = 5400 kmph
	TTT
	max, speed. Vm = 1.3 Va = 3 x 5400 = 7020 kmph
	ТТ
	$Vm^{2}\left(\frac{1+1}{24+2B}\right) - VmT + 36005 = 0$
	Vm2 = Vm . T-36005 _ 7020×T - 3600 x1.5
	1 + 1
	2 Κ 2 β
	2 xo·8 2 x3.2
	= 7020-5400
	5/6.4
	Vm = 1620 x6.4 = 45.33 kmph
	5

Page No. :

Date :

8070	
	Va = Vm = 45.53 = 35.028 KMPh
	1.3 1.3
	Actual time of run T = 36005
	Vo
	= 3600×1.5 = 154 Second 5.
	35.028
	schedule time , Ts = Actual time of run + time
	of Stop = 154 + 26 = 180 Sec.
	schedule speed (Vs) = 5 x 3600 = 1.5 x 3600
	Ts 180
	= 30 KMPh.
2 •	Derive the expression for Simplified quadrilatera
	speed time curve.
Ans:-	V
off)	V2*
	740
,	$\leftarrow +1 \longrightarrow \leftarrow +2 \longrightarrow \leftarrow +3 \rightarrow$ $\leftarrow Time in sec$
	Le+,
	d = Acceletation in 1 <mphps< td=""></mphps<>
	Bc = coasting tetordation in kmphps.
	B = Braking retardation in kmphps.
	V1 = Max. Speed at the end of occeleration
	in kmph

# M.M.C.O.E. age No. : Date :

Page No. :

17.	
	V2 · Speed the end of coosting in kmph.
	T = total time of run in seconds.
	Time of occeleration in Seconds, to VI
·	2
	Time of coosting in Seconds, t2 = V1-V2
<b>)</b>	Time of broking in Seconds t3 = V2
	Total distance travelled in km  5 = Aistance travelled during occeleration t
1	distance travelled during coasting + distance
	trovelled during retoration.
	+roverted days
	= 1 V × +1 + V + V 2 × +2 + 1 V 2 × +3
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$= V_1 + V_1 + V_2 + V_2 + V_3 + V_4 + V_4 + V_5 + V_5 + V_5 + V_6 + V_$
m	7200 7200 7200
	$= V_1 + (t_1+t_2) + V_2 + (t_2+t_3)$
	7200 7200
	:. 5 = V1 (T-+3) + V2 (T-+1)
	7200 7200
	$= \frac{1}{7200} \left( \frac{V_1 + V_2}{7200} \right) - \frac{V_1 + V_2}{7200} - \frac{V_2 + V_2}{7200}$
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	7205 = T (V1+V2) - V, V2 ( V/A + V/B)
	we hove,
2 1	we nove;
1,1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Page No.:

Date :

4	V2 = V1-βet2 = V1-β(T-t1-t3)
	$= V_1 - \beta C \left( T - V_1 - V_2 \right)$
	( α β )
	V2 = V1 - BCT + BCKV, 1
	×
	1 - βς
	β
All	
3.	A troin is required to run between too stotions
	1.6 km aport at on overage speed of 40 kmph.
	The run is to be made to a simplified quodriloteral
	speed - time curve. If the maximum speed is to be
	limited to 64 kmph, occeleration on 2 kmphps and
	(oosting and braking retardation to 0.16 kmphs
	ond 3.2 Kmphps respectively. Determine the
	durotion of occeleration coasting and breaking
	Period.
Ans:-	Given: 5:1.61 <m< td=""></m<>
	Vo = 40 KMPh
	Vi 64 kmPh
	d = 2 kmphps
	BC = 0.16 KMPhPS
	B = 3.2 KMPhPS
	Durotion of occeleration to vo = 64 = 325ec
	~
	Actual time of tun, T = 36009 = 3600 x 1.6 = 144 Sec
	Va 40

Page No.:

A CONTRACTOR OF THE PARTY OF TH		
	durotion of coosting, to = VI-V2 = 64-V2 Sec	
	BC 0.16	
	duration of brocking, t3 = V2 = V2 Sec	
	B 3.2	
	Octual time run, T= t1+t3+t2	
	= 144 = 32 + 64-V2 + V2	
	0.16 3.2	
	$\sqrt{2} \left( \begin{array}{c} 1 \\ 0.16 \end{array} \right) - \left( \begin{array}{c} 1 \\ 3.2 \end{array} \right) = 32 + 400 - 144$	
	(0.16)	
	V2 = 288	
	6.25-0.3125	
	. , V2 = 48.5 KmPh	
	1	
	Durotion of (oosting , t3 = Vm - V2	
	= 64-48.5 = 96.85 Sec	
	0.16	
	105 -1515 500	
	$\frac{1}{12} = \frac{1}{12} $	
	l Sur	
2		
l'		

Name	Samonde	Pratiksha	Shahurai	
Nume	المحادث المحادث		Roll No	TE48
			Assignment No	06
Code Utilization of Electrical Energy				

Sub: Utilization of Electrical Energy

ACY - 2018-19 (TE-SEM-I)

	Score			
Dimension	Slight (Low-1)	Moderate (Medium-2)	Substantial (High-3)	30010
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Reasoning and Analysis	Irrelevant and incomplete answers.	Some answers correctly justified, an important reason(s) overlooked.	Clear and accurate answers; insightful and specific.	_3
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Organisation	Numerous errors, hard to read; questions are not stated before answers; format details are not adhered to.	Enough errors to distract the readers; organisation problems; questions not stated before answers; and/or format difficult to navigate.	Use of correct grammar, spelling, and punctuation; well organised; one idea follows another in a logical sequence with clear transitions; questions stated before answers; format easy to navigate.	3
,			Total	12

Faculty: Mr. S. M. Harite	Signature with date:	ah	
Faculty: Wif. 5: Wi. Harres		2/4/19	



# Assignment - 6

# M.M.C.O.E.

Page No. : 24 Date :

1. 10. 1	
<b>Q</b> .	Describe with neat diagram principle of operation
1	of a Rosenberg generator.
<b>→</b>	It was originally used as a train lighting generato
	JI develops an emf, the direction of which is indepe-
, 1	-ndent of the direction of rotation
	2) It produces a current which beyond a particular
	speed, remains practically constant.
	, ,
	Companents :-
	· A battery v which must be used in connection
	with the generator if the latter is to function
	properly, supplies current to the lamps when the
	train is at rest and also to the shunt field
	winding.
<b>—</b>	brushes through a rectifier element which blocks
	the flow of current from the battery to the
,	armature but which blocks the offers zero resis-
	tance to current in the other direction.
-	on addition to the main brushes there is a
Type Type	pair short circuited auxiliary brushes placed at
	right angles to the polar axis
	Working :-
	When the armature notates through the magnetic
	field set up by FF, a current is produced whi-
	along quis IL and creates a powerfull cross field
	TOTAL CITAL

# M.M.C.O.E. Page No. : 25 Date :

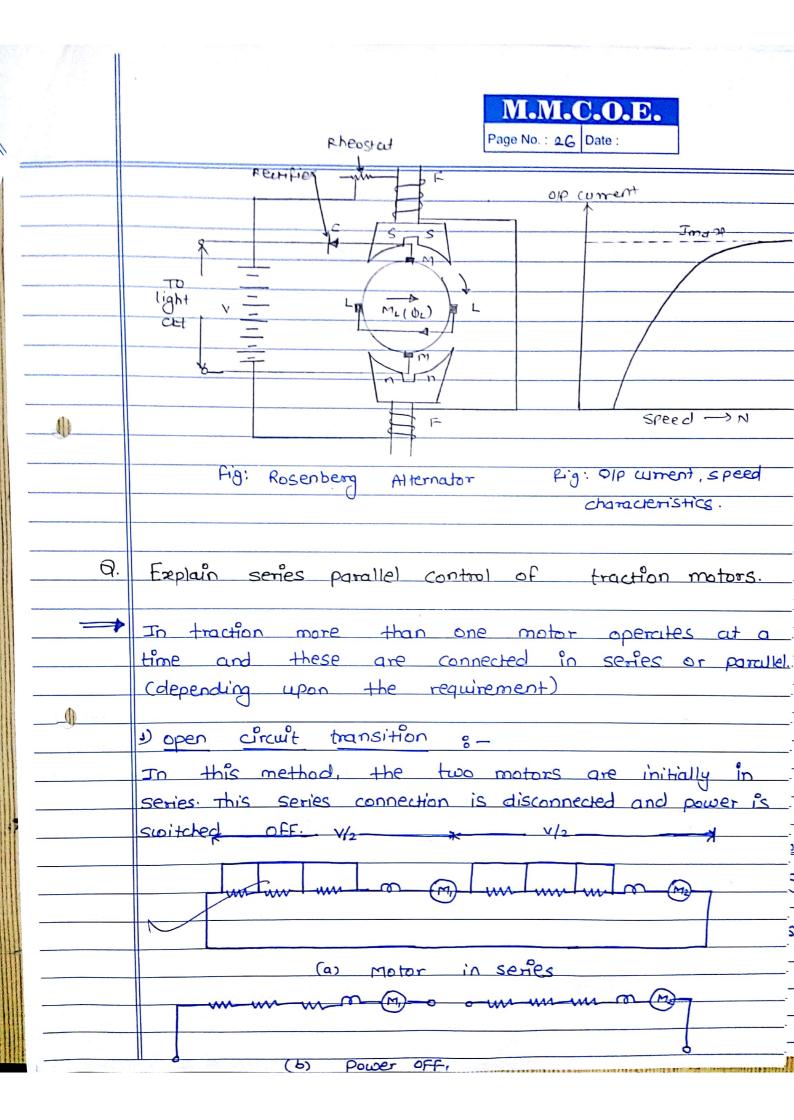
The lines of force of this field find a path of low reluctance through the pole stoes.

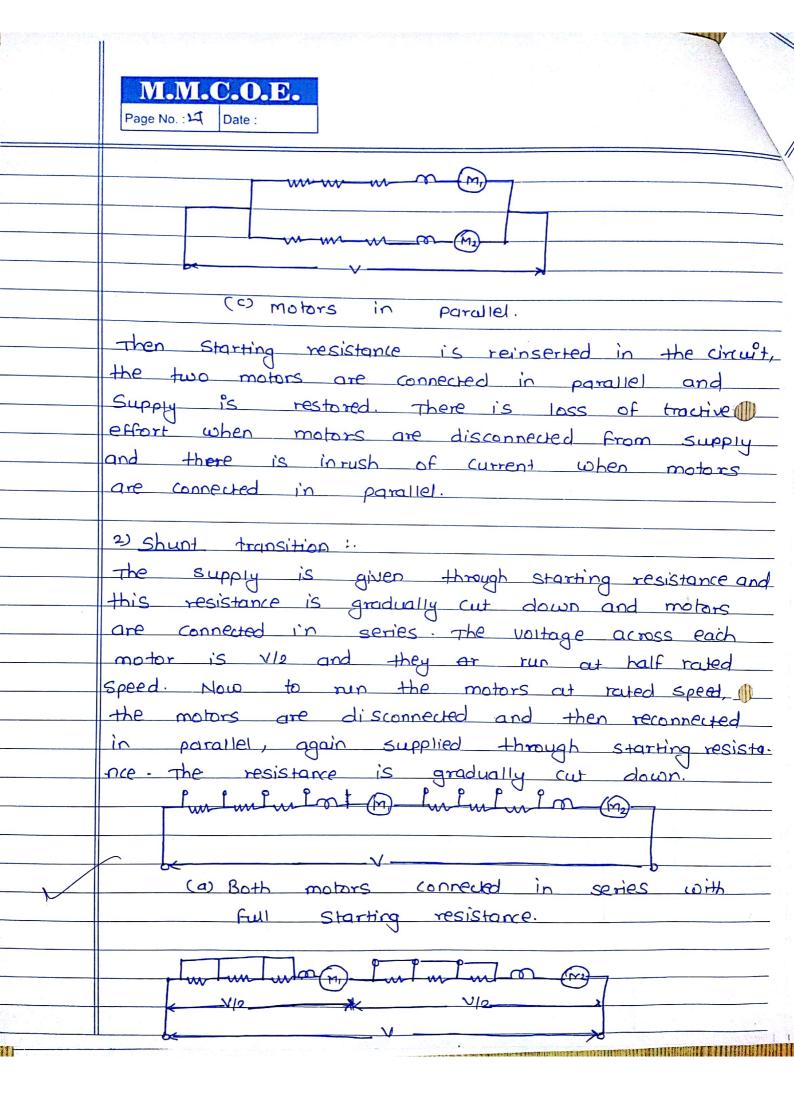
The clockwise rotation results in a cross field directed from left to right, the motion of armature condi through this cross field generates an enf and current along the MM gaus in such a direction that the armature mmf represented by the armo Mrs opposes the excitation due to the Ried winding FF.

. The no load component of armature current can Alow until a Certain speed is obtained.

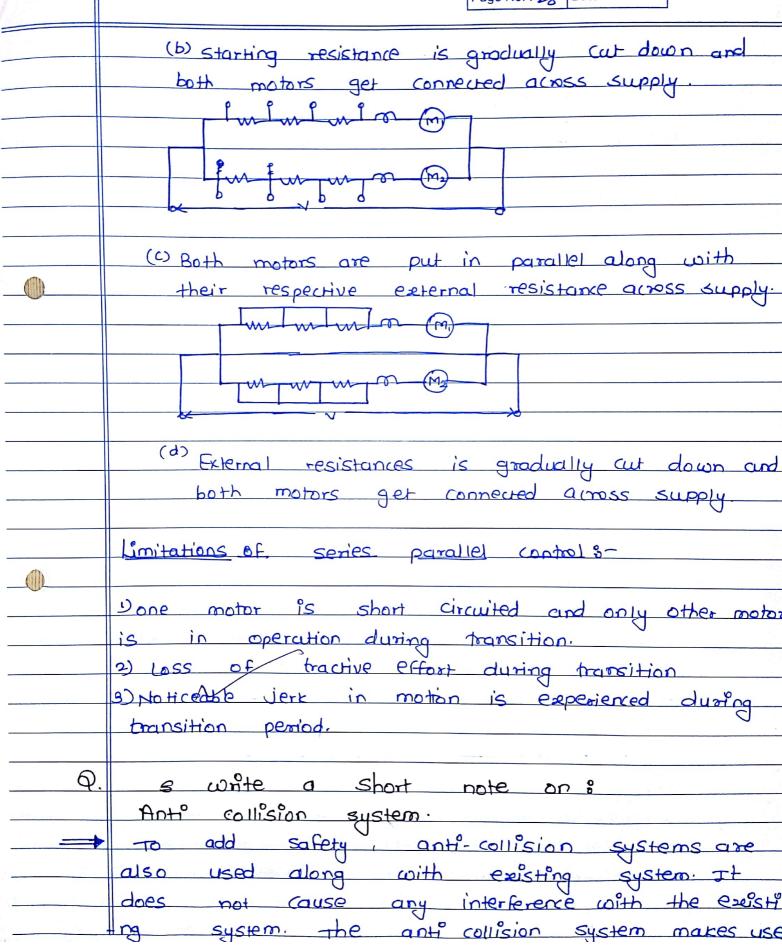
Rosenberg generator may be driven either by belt from the car age or by mounting the armstrume directly on the agele shaft.

• It is obvious that there is definite limit beyond which the main current delivered by the brushes MM cannot increase. this limit being reached when arm ature mmf neutralizes the lield excitation due to FF. for for that case there would be no enf and current in the LL axis and thence no enf in the main brush. It follows therefore that beyond a certain speed the mic will deliver a practically constant sp current. Any desired limit to the current may be set by adjusting the theo-Stat in the field circuit FF.

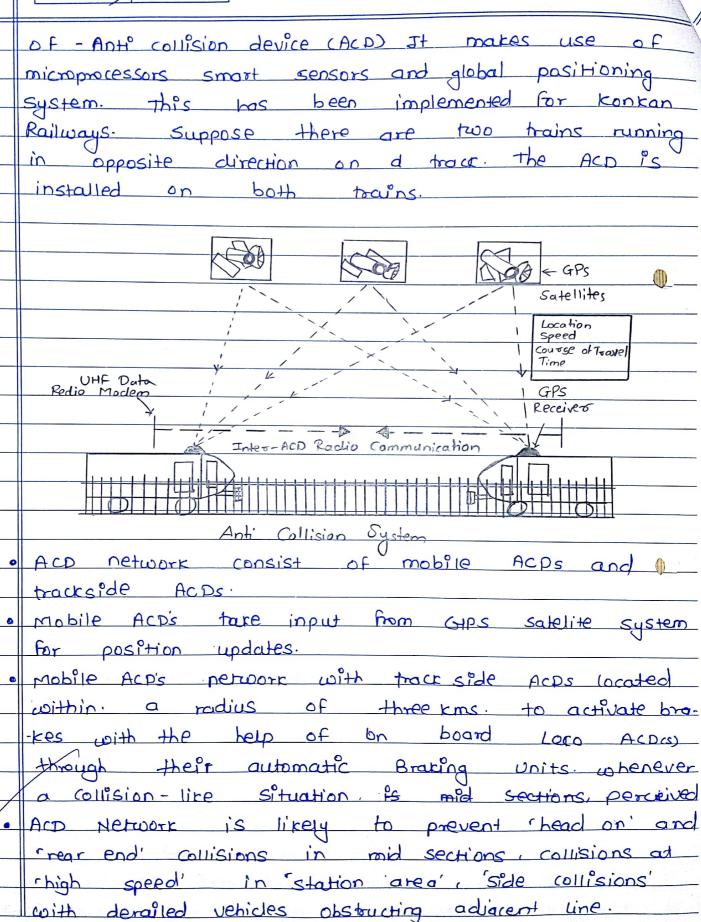




Page No. : 28 Date :



Page No.: 29 Date:

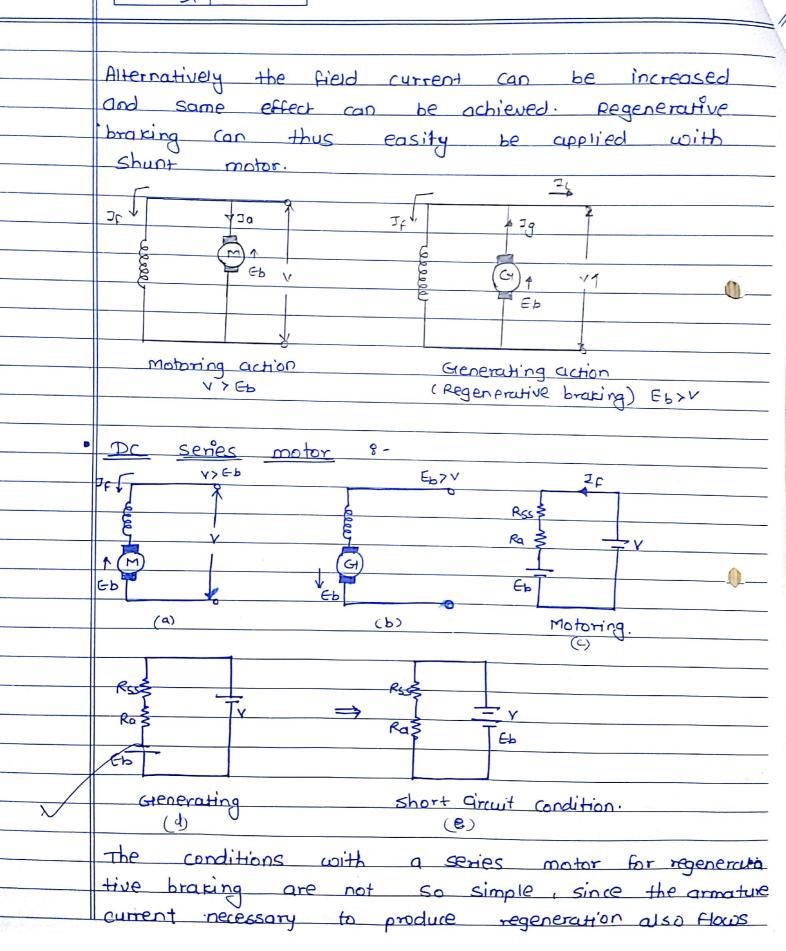


Page No. : 30 Date :

the location of train on the track is continu. ously traced by GPS system. The GPS device on train passes this information to other train and control mom. The ACP'S of both the train can communicate with each other in the range of 3km. when one of the train is approaching near a station.

ALD gives warning indication to driver, the driver reduces speed of train. If driver overlooks the warning the ABU operates and brakes applied gradually. a. and 3. phase induction motor for electric regenerative braking. To ase of regenerative breaking, the motor is made to run as generator and it remains connected to the line Thus the kinetic energy i's converted into electrical energy which is feedback to the the. i) Dc Shunt Motor 8suppose decrease in load on motor causes increase in speed above normal with field current remaining the same thus the back emf will increase and it may exceed supply voltage. When this happens the power is feedback to the line and kinetic energy decreases gradually thereby decreasing the Speed and thus braking is acheived





Page No. 32 Date :

through field winding. Therefore field current reverse causing direction of the in (d) Thus the and v are added and the resistance of circuit is (Ro + Rss) which is very low. This causes short circuit condition. iii) Regenerative Braking with three J.M. 8-Motoring Braking with external resist external resistance torque Stand Still It is achieved automatically when the motor runs a speed slightly above the synchronous speed. The motor starts avorking as an induction is not self exciting and must be connected to a system supplied from synchronous sp. generator i.e. It's field winding notor -coinciding will be supplied with D.C. by an exciter of some other synchronous generator system.

Name	Siddhi. S. Hukkerikar		
		Roll No	16
		Assignment No	06

Sub: Utilization of Electrical Energy

ACY - 2018-19 (TE-SEM-瓜

11

-

Dimension	Slight (Low-1)	Moderate (Medlum-2)	Substantial (High-3)	Score
Regularity and punctuality	Submitted one week late.	Submitted later than scheduled date with permission.	Submitted as per schedule.	3
Reasoning and Analysis	Irrelevant and incomplete answers.	Some answers correctly justified, an important reason(s) overlooked.	Clear and accurate answers; insightful and specific.	.3
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			Total	10

Faculty: Mr. S. M. Harite	Signature with date:	Dol	
		16/4/19	

Date: Page No. : o /

9.1	Compare Shunt transin	on & baidge transition,
	Shund Transition	bridge Transition,
l	In this method first the	1. In this method stationary gesistance is split into
	-brought to full series	two equal parts. The
	position by emilting out	starting resistance are
	external resistance	gradually sent out & motor
	gradually.	Come in sexing,
9	· · · · · · · · · · · · · · · · · · ·	2. hirst series
	First transition	Full Series
· <b>(</b>	- MM (My room (D) con the P (one motor insec)  Gerand pransition.	m com lu
	motor are connected in 11al.	(O) 150 m
		first Parallell.
the second second second second second		
	II .	

Assignment No.06

Page No. :

	Shunt Transition		Boildge Transition
	There is a jest in this type of system when one motor is shorted & causes to act on there to tractive less similarly there in jest. when reinserted.	3	As no motor shorted there is no tractive effect loss there is no yerk experienced,
	since jerk is experienced it is inconvinent for passengers.	4.	No jerk. It is : (1) Convinent for possengers.
S.	This method is employed in train-ways, inclustrial locomotive & main line locomotive	5.	This method is used too
6.	Its prebered Ity is above 6004.	6.	Its prettered vtg is above 600 v.
9.2	Ob traction motor.  Electrical characteristics -  (1) High Starting torque -  capable of developing high when the train is to be an	The	rechanical Characteristics  Traction motor must be Starting torque Specially lerated at a reasonably or Suburban services.

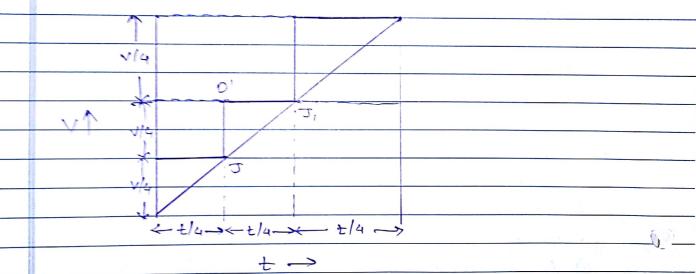
Page No. : 02 Date :

	@ Simple speed Control methods necessary Since as
	electric train has to be started of stopped.
	3 sen relieving properly. In case motor has speed
	torque characteristics such that torque is loversely
	proportional to speed. There product will always
	is constant. Therefore horse power of motor will
	also remain Constant - This gives motor a self
	protective property against everyond. Simple & easy
	methods of rheastatic & regenerative breaking
	6) In traction work, an account of heavy current
	innust of Starting, Considerable Vtg fluctuation
	of Supply Vtg occurs. The traction motors should be
	Capable of withstanding Such vtg without undue
	effect on their performance.
	Mechanical characteristics
	O Traction Should be rebust as they are subjected
	to Continuous Vibrations. They must withstand such
0	extremy severe condition.
	@ A high power (weight ratio is aimed at in design
	of traction motor. Therefore ut of traction motor is
	kept minimum. This is achieved by high speed modor
-	upper limit being fixed by centrifugal stress.
in the	3 Traction motor must be smew in size. Since the
	space a motor catch is limited for given hp of
nd to	motor its physical size depend upon type of
	insutation employed. T motor are now wound
	with crass H insulation.
	1 T motor should be totally enclosed type to
ger man b	

proxet it against dirt, dust, water. if its mounted beneath.

B T motor should have high electrical & mechanical

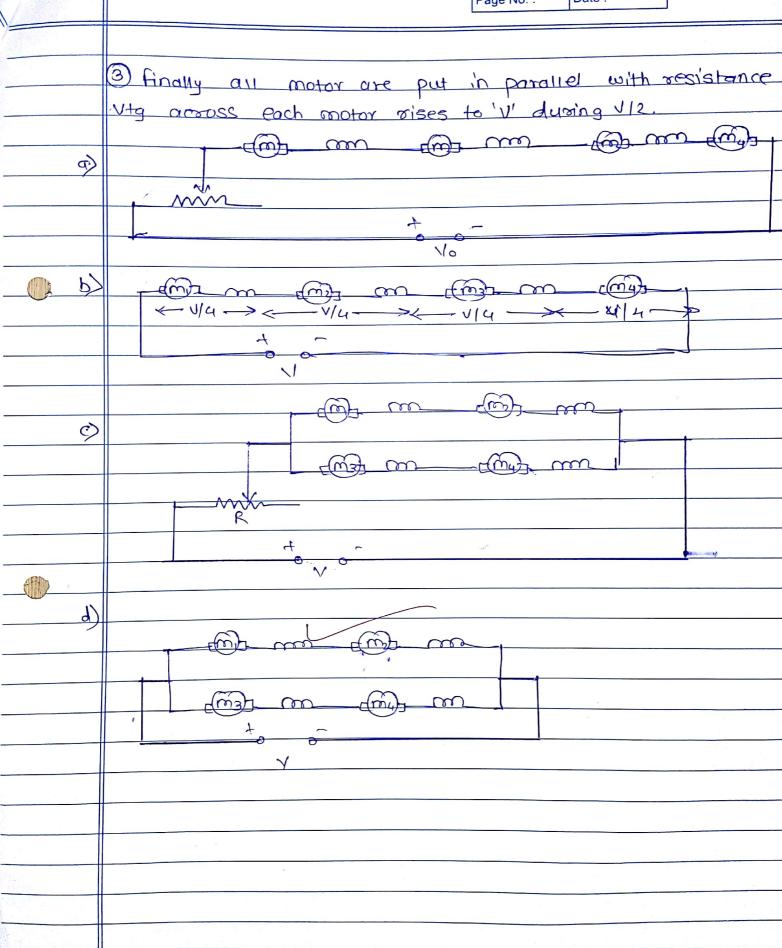
Soved with series: parallel starting in Case of locarative engine with four motor in operation.



All the motors are first connected in series, along with Starting whenstat. Assuming uniform acceleration the back emf in armature will rise linearly so that after a period of the the voltage accross each motor will be v/4 & all the Starting wheostat resistance would have been sent down.

The series Combination is converted into series parallel Combination with series resistance inserted.

Page No.:



Name	shubham	V. Bari		
Hame			Roll No	TE06
		Assig	nment No	6

Sub: Utilization of Electrical Energy

ACY - 2018-19 (TE-SEM-I)

Dimension	Slight (Low-1)	Moderate (Medium-2)	Substantial (High-3)	Score
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			Total	9

*				
Faculty:	Mr.	S. I	M.	Harite

Signature with date:

O al

22/4/19

Page No.: | Date:

Assignment - 6

compare shunt transition and bridge 0-1 transition :-Point of Bridge shunt Toonsition comparison Transition Torush No inrush moderate current during current transition. 2. Loss of tractive effort 50% No 3: Jerk during No jerk Less transition Compleximity 4. Less More OF operato Diagram paraulel Bridge Transin Acceleration Not as smooth as 6. smooth. achieved bridge accielerat

Page No. : 2 Date

0-2 Explain how regenerative braking is obtained in DC locomotive. What dre its advantages 8 The necessary conditions for regenerative broking all: - motor is made to run as a generator and it semain connected to the line. Thus kinetic energy is converted into electrical onergy which is feedback to the line. - Back emf must exceed the Vs. - The braking should have mechan. ical stability is braking system should he in a position to apply more & more broking torque in core of pourful over hading. - Braking system should have alrebica stability is braking torque applied should be independent of supply voitage fluctuation - If the energy feedback to line surply in supply i'e supply greak than demand then the generating station should be able to consume the energy otherwix regenerative booking unit offective.

Page No. : 3 Date :

* Advantages of regenerative browning:istability of control. 2) No losses or less losses 3) Effective braking than mechanical braking system. No requirement of additional equipme 5) more effective, efficient. Q-3 give essential electrical and mechanical characteristics of traction motor: I suitable speed torque characteristic: The torque required at start at start is high or maximum. This is because heavy mans is to be accelerated a) Parallel running =-In traction work, weally more than one motor operate at a time Hence these motors should be capable or operating in parallel. Then occur a smar differen in rotational speed of various motors because of uneven war and tear of wheels 3) Voltage fluctuation: -In traction work on account of heavy current inruh in starking considerable voltage flyctuckion of supply line is a

Page No.: 4 Date:

normal feature. motor should able to with stand voltage fluctuations I Temporary voltage interruption: This occus when section insulators e Cron over are crossed with the controller. on motor should withstand these fluctuation without beary inrush of current 5) overload copacity 6) self reliving capacity. -1 Compando i) amenability ato speed control! Limitation to electric booking. 9) limitation of veight size High efficiency;

Nan	1e	Priya	Sanjay Mo	s c	
2		0		Roll No	T[ 40
			Assi	gnment No	3
Sub: Design of Electrical Machines (303149)  ACY - 2018-19 (TE-SEM-II)					19)
Dimension	Sligh	nt (Low-1)	Moderate (Medium-2)	Substantial (High-3)	Score
Regularity and punctuality	subr late.	nitted one week	submitted later than scheduled date with permission.	submitted as per schedule.	2
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Total					11
		1			2

Faculty: P.R.Choube
Signature with date:

	Page No.: Date:
	ASSIGNMENT: 03 710
Q. J	Estimate the various losses in a 30 J.M.
$\rightarrow$	There are five losses in 30 I.M.
	i) Stator copper losses (I'R losses)  ii) Rotar Copper losses (I'R losses)  iii) Stator Core losses (Iran losses)  iv) Friction & Winding losses  v) Additional losses.
	i) Stator Copper Losses:  These are the losses taking place stator conduction. The copper losses are due to the power wasted in the conductor due to resistance of stator winding.
	These losses depends on the magnitude of current thowing in the winding as well as resistance of stator winding.
	stator copper losses = 3 Is To walts.  where,  Is = stator current per phase  Ts = Resistance of stator Wings.  per phase.
3	

1	
(1	FIGURE INTERNAL TO THE PARTY OF
1 , 4	ii) Rotor Copper losses: (I'R losses)
. <del></del>	These are the losses taking
Çl +	place in rotor bors and rotor end rings
	the copper losses are due to the power wasted
	in the bars and in the end rings due to
1	resistance of bors and end rings
140	
F-M	where, Ib = Rotar bar current.
	Tb = Resistance of rotor bars.
	Similary Cu losses in endrings = 2 x Ic xrc watts.
	9
1	Total rotor cu losses = Cu losses in + Cu losses in
	rotor bars end rings.
1 2 1	P(1) Slalar C - 1
	Pii) Stator Core losses:
	These are the losses
1	taking place in stater core & stator teeth.
	- Come lacces in alala
	- Core losses in stator core.
	Volume of stater is known. then weigh of.
	stator core- is.
	= Volume of stator core x density of
1	iron (kg)
	Density of 1 ran = 7.6 x 103 kg /m3,
A The Control of the	
La ligate	(Oxe
W10000	

-Core	-Core loss in stator teeth.			
	*			
Volume	of stator treth	is known then.		
Weigh	of stator - volu	teeth (kg)		
te2h_		teeth (Rg)		
100-10-11		7 C x 103 kg / m3		
·· vensit	9 0 ( 1701) 15	7.6 × 103 kg/m3		
Core loss	es in - weigh a	of stator x specitic iron		
stater.	teeth teet	h loss (W/kg)		
• 4				
Total a	ore lossin _ core	losses in core losses		
stat	or sto	vor core instator teeth		
iv) Trict	iv) Frictional & Windage Losses: As discussed corlier			
these_	losses vary as	per the rating of the		
		ing standard table gives		
1 1		triction & windage loss in		
+Coms	of o/p.	4 2 2		
	O/P in I< w	friction Windage 1085 (1)		
	0.75	→ 5·5		
	3.7	→ 3.5		
	7.5	→ 2.7		
	37	→ 1·5		
	75	→ 1.2		
n.	720	→ 1·0·		

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Page No. :

	v) Additional losses:	
	Cu losses due to harmonic and	1
	due to skin effect of iron losses in the form	
	06 pulsating losses & structure losses total	
( )	Total loss = stator Cu loss + Rotor Cu loss +	
<u> </u>	Stator Core loss + Riction and	
/	windage loss + Aditional loss	<b>(1)</b>
Q.2	Explain the procedure to estimate the no	
	load current of an Induction motor.	
$\rightarrow$	The no. load current of an I.M contains.	
	i) Magnetizing Current (Im). ii) loss component current (II)	
. 14	ii) loss component current (IL)	
1		<b>(6)</b>
	No load Cyrrent is measured from no	THE STATE OF THE S
	load test and two components In & Il	
	are determined as.	1751
	$I_0 = \left(I_m\right)^2 + \left(I_L\right)^2$	
	←	
1	required to set up the tlux.	
	No.	
	e ·	

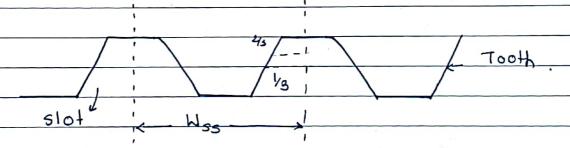
Page No.:

Date:

mmf in air gap (ATg):

where, kg > gap contraction fector.

mmf of stator Teeth (ATLS):



 $\frac{\text{Bls (1/3)} = \emptyset_{\text{m}}}{(55/\rho) \times L; \times W_{+s} (1/3)}$ 

... When 
$$(\frac{1}{3}) = \pi \left[D + 2\left(\frac{dss}{3}\right)\right] - W_{ss}$$
.

Bls 60 = 1.30 Bls (1/3)

8

ATts = atts xdss.

Street, Square Street,		
1 V	M.C	
		חש וי

Page No.:

_ 1,(_11,	
	- mmf of rotor teeth (ATtr).
	Btr (1/3) = \$\psi_m\$
	(Strip) x Li XWtr (1/3)
1	
	$W_{tr}(V_3) = \Pi \left[ D_r - 2 \times \frac{2dsr}{3} \right] - W_{sr}.$
	Sr A
	Where,
	Where,  dor = depth of rolor slot.
	War = Width of rotor slot.
	Btr60 = 136 Btr (1/3)
	AThr = 9thr xdsr.
	- mmf of stator (one. (ATCs)
	111111 di 31 39 37 (di 12 7 c. 1 c. 1 c. 1
	length of path through stator core.
	lcs = 1/3 T (D+ 2dss+ds)
	P P
	ATCs = atcs x lcs.
	11.103
	Total mmf per pole for BGO is.
	No.
	ATGO = ATg = ATts + ATtr + ATcs + ATcr.
	Im= 0.427 PATEO
	Kws Ts-
	where,
	P > No of Poles.
	kws > Winding factor.
, É	Ts -> stater turns per phase
	,

Nan	ne	Vaibhav	Narsimlu B	uddawar	
			4	Roll No	09
		1.3	Assi	gnment No	06
Sub: Design of Electrical Machines (303149					
		ACY - 2	1018-19 (TE-SE	=M-11)	12
Dimension	Sligh	it (Low-1)	Moderate (Medium-2)	Substantial (High-3)	Score
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	_1			Tota	9

Faculty: P.R.Choube	Signature with date:
	101/5

Page No. :

Q ·1>	Estimate the Various losses in a 3-0 sign
<u> </u>	These are given five type of losses in a
	2 y 1.11,
*	1) Stator Copper losses (12R losses)
	2) Rotor Copper losses (I2R losses)
	4) Stator Core losses (Iron losses)
	4) Friction and coindage losses  5) Additional losses.
	radifforat fostes.
2	+> Stator Copper losses:
	These losses are take place
	In Statox (onductor, The Copper losses are due
	to the power wasted to the Condr due to
Produce C	resistance of stator winding. These losses depends on the magnitude of Current Flocolog in the winding. Os well as resistance of stator
	on the magnitude of Current Flocoling in the
	conding. as well as resistance of stator
ate.	stator Copper losses = 312s rs coatts
	Ohere Is = Stator Cament / phase
	To = Resistance Of Stator wdg / phase
Asimple !	s = new and r pridse.
r 1	11) Rotor Copper Josses 3-
	These are the losses taking
<u> </u>	place in votor end rings. The Copper losses are done due to the power wasted in the
	done due to the power wasted in the
	bans & in the end rings due to resistance
11.	of bons of end mings.
	(a losses in votor base = No of votor basex
ų.	I'2 xxp coatt

	Page No.: Date:
	Th = rotor bar (uncol-
1	The = mesistance of rotor bar + cu losses in
	3) Stator Core losses:- These are the losses takes place
	in Stator Core & Stator Teeth.
	Core loss in Stator Core:  Volume OF Stator Core in known then weight  Of Stator Core axight = Volume OF Stator Core X  OF Stator Core axight = Volume OF Stator Core X
	Of Stator (ore. Coephr = volume Density of iron (kg) Density of iron = 7.6 x 103 kg/m ³
	Density OF Iron = 1.6 x 10 0
	(ore losses in Stator Core = weight of Stator Core X sperific iron loss (wikg)
	Volume of Stator teeth is known then weight  Volume of Stator teeth & known then weight  Volume of Stator teeth X:
	Density of Iron (kg)  Density of Iron is 7.6 × 103 kg/m3  Density of Iron is 7.6 × 103 kg/m3  Core losses in Stator teeth = Cut of Stator teeth  X Specific Iron loss
	Total Core losses in Stator =  Core losses in Stator Core + Core losses in Stator.  teeth.
	4) friction and coindage losses:-  As discussed earlier these losses transp
	As discussed earlier these rester the as per the rating of the machine of the following Std. Table gives approx. value of following foody losses in terms of olp.

Page No.:

at a suite .		
2	olp in Kw	Friction of cody losses
54,57		(·/· of o/p)
a a	0.75	55
	ვ.7	3.5
4	7.5	Q·7
	37	1.5
	75	1.2
	150	1.0
	Additional losses	:- (u losses due to harmonics f
		iron losses in the form of
	11	f Surface losses.
	Total losses = St	ator (u loss + Rotor (u loss + Stator
		Hon & windage loss + Additional loss
		J
Q·2}	Explain the proce	dure to estimate the no load current
	of an I.M.	2.7.1
>	This is an imp	parameter of an I.M
	The no load can	rent of an T.M Contains
		(uncot (IM)
/		companent (II)
¢.	II .	s measured from no load test &
	II .	In & II are determined.
	To = V (7	$Im^2 + Ic^2$ )
	to set up the	ment is the minimum current required
		V.,
	mmf in air	gap (ATg)
	,	J 1

M.M.	C.O.E.
Page No. :	Date :

	Page No. : Date :	
	Fg = 60 = 1.36 Barg  4 Aty = 800000 Bg60 Kg Ly  Where	
	lg = gap Contraction Factor  lg = length of air gap.	
	mmf of Stalor teeth (AT+s):	
-22	Slot Wes	
	Rts (1/3) = Øm	
	(SSIP) XLIXWts (113)  wts (113) = T1 [D+ 2 (dss 13)] - wss	
Jun - 11	Bts60 = 1.30 Bts (1/3)  ATS = 0tts Xds	. 7
	mmf of rotor teeth (A Tee)	<u> </u>
	Btr (1/3) = Øm (5x10) XLi XWtr (1/3)	<u>,                                      </u>
	wtr (1/3) = T. (Dr - 2 x 2dsr/3) - wsr	
	obere of of votor slot	<u> </u>
(c ), z	Bts 60 = 1:36 Btr (113)	<u> </u>
	Mmf of Stator (ore, ("Ales)	

M.M.	C.O.E.

Page No.:

	length of path through Stator Core
***	les = 1 71 (D+20ess +des)
4	ATCS = atcs x Lcs
	mmf of votor (ore (ATOr)
	ler = TI [D-2dsr-dor] 3p
	Ator = ater Xlec
	Total mmf per pole for 360 is
	, and the second
	AT60 = Aig + Aigs + ATE+ + ATC+ + ATC+
	Im = 0.42 T pateo kox Ts
	Kass Ts
	D = No of polos
	P = No. of poles Kws = winding fador
	Ts = Status turns / phase
	·
1	

Name	siddhi . s .	Hukkenkar		
, - I	C.	Roll No	16	
	r i e .	Assignment No	ø €	
Sub: Design of Electrical Machines (303149)				
ACY - 2018-19 (TE-SEM-II)				

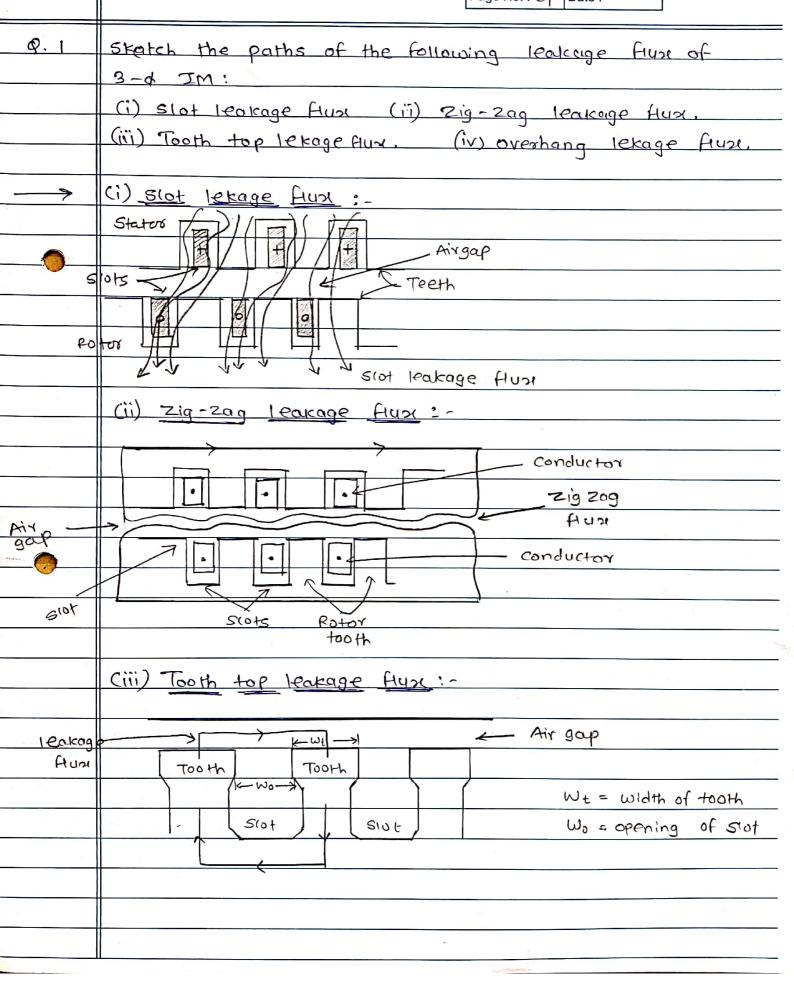
Dimension	Slight (Low-1)	Moderate (Medium-2)	Substantial (High-3)	Score
Regularity and punctuality	submitted one week late.	submitted later than scheduled date with permission.	submitted as per schedule.	2
Reasoning and Analysis	irrelevant and incomplete answers.	some answers correctly justified, an important reason(s) overlooked.	Clear and accurate answers; insightful and specific.	3
Focus on Topic	Very few of the answers relates to the assigned subject questions.	Answer are not as detailed and/or concise as needed; use limited course vocabulary.	Answers address the questions clearly and fully, showing higher uses of course vocabulary.	B
Organisation	Numerous errors, hard to read; questions are not stated before answers; format details are not adhered to.	Enough errors to distract the readers; organisation problems; questions not stated before answers; and/or format difficult to navigate.	Use of correct grammar, spelling, and punctuation; well organised; one idea follows another in a logical sequence with clear transitions; questions stated before answers; format easy to navigate.	2
-			Total	เอ

Faculty: P.R.Choube	Signature with date:
	7 70 313

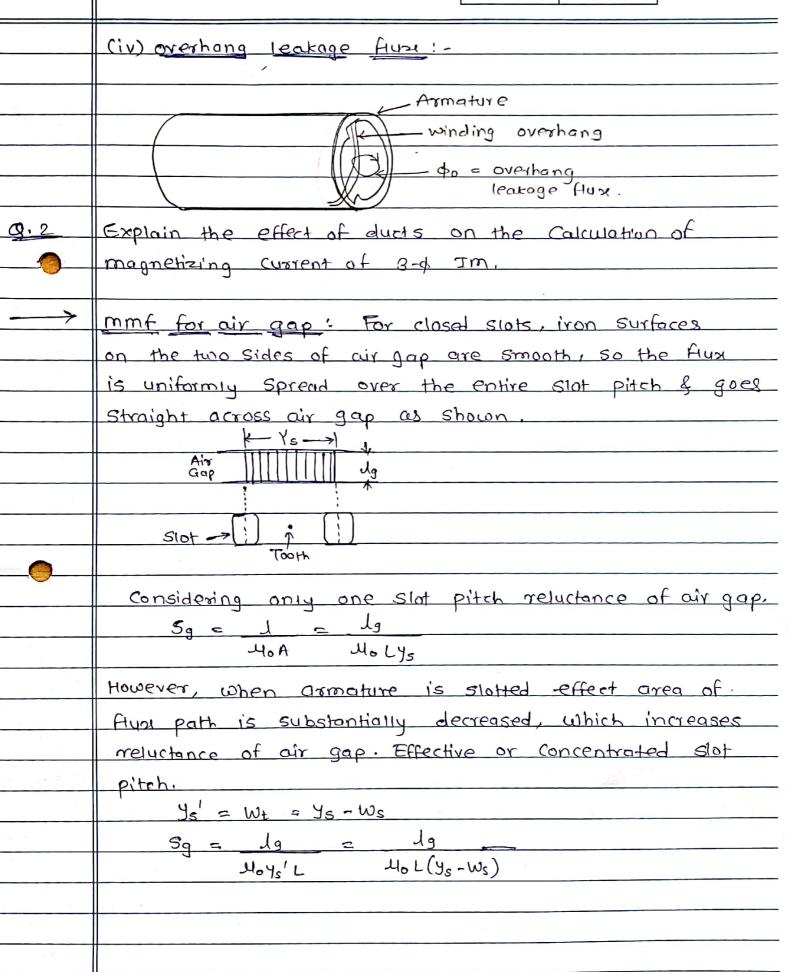
## Assignment no. 06

M.M.C.O.E.

Page No.: 01 Date:



Page No. : 02 Date :



7	Effective or contracted stot Pitch.
	Ya' = Wt + SWg = Wt + Wg + SWg - Wg
	= 49 (1-8) Ws
. 1	ya' = Yg - Kcg. Wg
	Here, Kes is the carter's gap Coefficient & it depends
	Shown.
	2 2 2 2 2
■ ³	Jos teg
:	Slot opening  Grap length
	Gop length
- 4	- Reluctonce of air gap with statted armature,
	·
	Sg = 19 No Yg' L
	Sg = 19
	Mol(ys-Kos Ws)
	Kgs = 79
	Ys - Kes. Ws
	Similarly, radial ventilating due to result in contraction
	flux in axial direction,
•	conten's coefficient is based upon = Duct width
	1/2 Gap length
1	Kggs = Gap Contraction factor for Stater State.
, -	Kggr = Gap Contraction factor for rotor slot.
1.	kgs = Total gap contraction factor for slot.
	: Kgs = Kgss x Kgsr
-	

#### Marathwada Mitra Mandal's COLLEGE OF ENGINEERING S. No.18, Plot No.5/3, Karvenagar, PUNE - 411 052

#### Department of Information Technology

#### Academic Year (2018-2019) Sem - II Theory Assignment No: 2 (UNIT -V)

Class: TE IT Course: Data Science & Big Data Analytics CO Covered: CO5. BATCH - A (L2)Q1. Explain the challenges in Big Data Visualization (L1)Q2. Write a note on Gephi. (L1) Q3. List and discuss various types of data visualizations (L1) Q4. Write a note on Tableau products Q5. List the open source tool used in data visualization (L1) BATCH - B Q1. 'Visualization is an excellent medium to analyze, comprehend and share (L5)information': justify this statement Q2. State the technique used to analyze multivariate sets. (L1) Q3. Name a few visualization tools and explain any 1 of them (L1) Q4. Which visualization is recommended for percentage data sets (L1) Q5. What aggregate operations on data can be performed in Tableau (L1) BATCH - C Q1. List and discuss various types of data visualizations (L1)(L1) O2. What is a tableau server? (L5)Q3. Discuss applications of Data Visualization Q4. Explain the difference between infographics and visualization (L2) Q5. List the open source tool used in data visualization (L1)

> Mr. N. 5 Dhavase Course Coordinator



Assignment - 2

	r-sigercos i
	Explain challenges in Big Data visualization.
->	Diversity and beternoeneity in big data
	coreates a big problem while visualizing the
	de la big problèm white viscenza g
	ada.
	2. Analysis speed is the most preferred factor
	in big data analysis.
	3. Usually big data is in unstawatured
	format and to visualize unstructured data
	tables graphs and other metadata is used.
	4. As size of big table is vast, providing huge
	pagallization is a challenge in big data visualization
	5. Other challenges of big data visualization are
	Proceptive and Interactive scalability.
	6. As size of big data is vast, visualizing
	every data point leads to overplotting and
	dissuption.
	7. The problems like high latercy and
	disruption in interaction are resulted by
	querying large data sets.
	8. Due to large size and dimensions of big
	data the visualization becomes more
	challenging.
2	Write note on Gephi.
3	1. Géphi is one of the open-source tools written
	in Java and openful which has Java-Script
	based visualization platform.
	2. It is used to manipulate very large and complex data sets.
	LAMBIEX CIVIC SELS.

-	Page No. : Date :
-	2. Gephi is designed to use by scientists and
- 1	by business analysts.
-	It is data explorer.
-	a gephi is graph based visualization tool which
-	not only seperate large data sets and
-	generate altractive viewalization but also
-	provides ability to clean and sont data.
-	5. It is used to.
-	1. Repairement relationship between data and
-	its evolution grouping sets.
1	2. Experting and impositing tables, among
-	other renchans.
-	a. Gaphi is best for only graph visualization it is
-	not made too other types of visualization.
-	7. It can't be used as visual analytics platform
-	for all parpose.
-	
1	List and discuss various types of data visualization
-	Types of data visualization.
-	1. Table
1	2. Histogram
- 1	3. Scatter plot
- 1	5 Tentino
	5. Tipreline
	6. Various diagrans.
	1. Table
	Collection of sions and columns together reffered
	as table. Rows are known as tuples, records etc.

Columns known as fields, attributes etc.

M.M.C.O.E.

Page No. :

It offers simultaneous measurment largelation, of two values; where one value resides in column and other in hous. 2. Histogram . -It is used to graphically sepsesent huge amount of data/measurment/dimensions contained by table. 3. Scatterplot -It is helpful to represent relationship among 2 different variable where one maybe as not conselate to another 4 Write a note on Tableau products > 1. Tableau is BI (Business intelligence) software 2. Tableau how three main products to process large scale dataset as given below 1. Tableau Desktop 2. Tableau Seques. 3. Tableau Public. 3. Tableau Public :-For desktop clients, Tableau offers Free version known as Tableau Public also Referred as Desktop Application which uses windows and Java Script It allows us to connect with files like Excel on C.S.V. spreadsheets, etc Tableau Public provides some feature like robust data preparation and visualization. lableau data is good for visual analytics

M.M.	C.O.E.
NI	D . L

Page No.: Date:
If we emphasis on flat files like Excel workbooks. Tableau Public main feature is its user interface.
List open source tool used in data visualization.  Open source tools used in data visualization.  are:-  1. Data warapper.  2. Chart Is  3. Raw  4. Charted
5. Timeline  6. Leaflet.  1. Datacosapper -  The is fully open source data visualization tool designed to create visualization for new institutes.
2. Chart JS -  It is open-sounce, a clean charting library  It is good selection for users who want  their self to control over look and feel of their  chart.  S. Raw -
Raw is also open source, web based tool which is built on BD3. is library.

#### COLLEGE OF ENGINEERING, PUNE

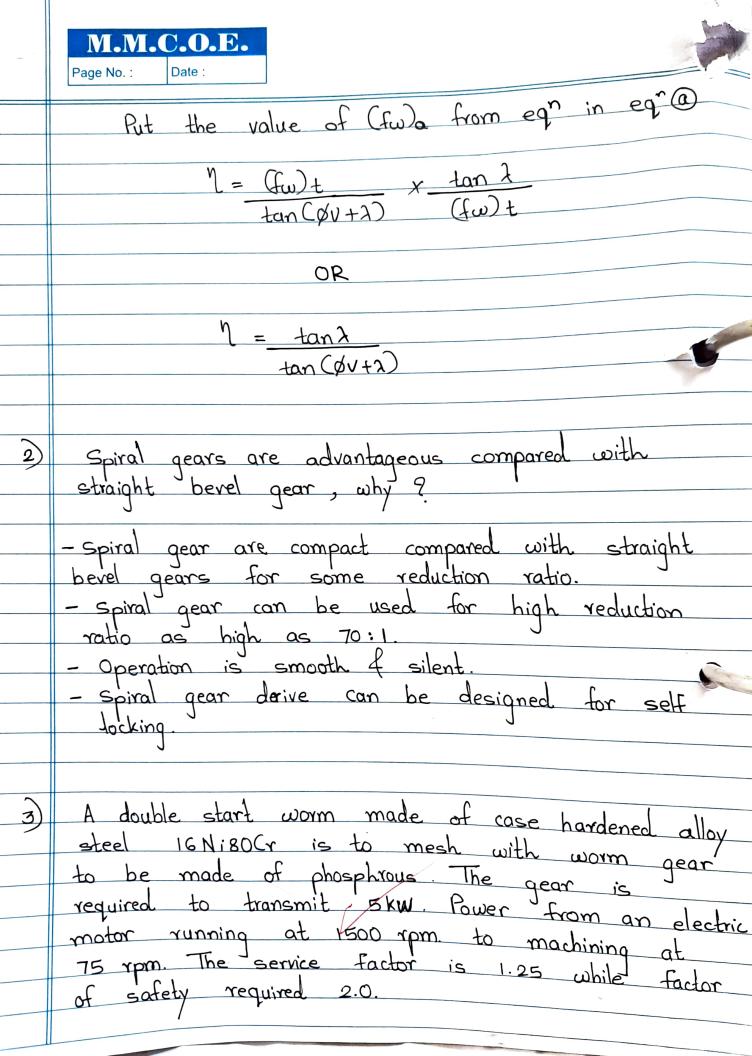
Accredited with 'A' Grade by NAAC

### Department of Mechanical Engineering

**Rubrics for Assignments** 

Name	shreyay	Naik				
Roll No	Shreyay TMA 153					
Assignment No	04					
	Subject:	DME·I				
	A	.Y. 2018-19 ( Semi	II)			
Dimension	Dimension Slight (Low-1) Moderate (Medium-2) Substantial (High-3)					
Regularity and punctuality	Submitted one week late.	Submitted later than scheduled date with permission.	Submitted as per schedule.	02		
Reasoning and Analysis	Irrelevant and incomplete answers.	Some answers correctly justified, an important reason(s) overlooked.	Clear and accurate answers; insightful and specific.	02		
Focus on Topic	Very few of the answers relates to the assigned subject questions.	Answer are not as detailed and/or concise as needed; use limited course vocabulary.	Answers address the questions clearly and fully, showing higher uses of course vocabulary.	OL-		
Organization	Numerous errors, hard to read; questions are not stated before answers; format details are not adhered to.	Enough errors to distract the readers; organization problems; questions not stated before answers; and/or format difficult to navigate.	Use of correct grammar, spelling, and punctuation; well organized; one idea follows another in a logical sequence with clear transitions; questions stated before answers; format easy to navigate.	03		
			Total	09		
Faculty: (1)	er		Sign with date:			

	Shreyas Naik  M.M.C.O.B.
	Div. A Roll No. 153
	ΔIME - 44
)	Obtain an expression for the entire
	year arive.
	Efficiency of worm of worm gear drive is defined as ratio of of power to input power.
	as ratio or up power to
	Efficiency = 0/p power  I/p power
$-\parallel$	<b>N</b> O
	=
$-\parallel$	P;
	$= \frac{(fg)_{r} \cdot V_{\alpha}}{(fw)_{k} \cdot V_{\alpha}}$
	(fw)z. Vw
	$= \frac{(f_g)_t \left( N dg ng / 60 \times 1000 \right)}{(f_w)_t \left( N dw nw / 60 \times 1000 \right)}$
	(fw) (Ndwnw/60×1000)
	$= \underbrace{(fg)t}_{X} \underbrace{Zg}_{X} \underbrace{Zw}_{X} \underbrace{1}$
	$= \frac{(f_g)t}{(f_w)t} \times \frac{Z_g}{Z_w} \times \frac{Z_w}{G} \times \frac{1}{G}$
	$= \frac{(fg)_{t} + x G x \tan \lambda x}{(fw) + G}$
	(fw) t
	$= \frac{(fq)t \times tan \lambda}{(fw)t}$
	(fw)t
	(fw) +



The facewidth of worm gear factor is 0.685. Normal while dimerterical quatient is 10. The normal angle is 14.5°. If coeff of friction between worm gear teeth is 0.03 design. The gear pair of find the power least would vary recommended a for gearbox, assume permissible temp. rise is Use following data Lewis form factor y = 0.34 - 2.15  $Z_g$ 

Velocity factor  $C_V = \frac{6}{6 + V_0}$ 

Area of housing -  $A = 1.14 \times 10^{-4} \times (a)^{1.7} \text{ m}^2$ where a = Centre distance.

 $Z\omega = 2$  (Sut)  $\omega = 700 \,\text{N/mm}^2$  (Sut)  $\omega = 240 \,\text{N/mm}^2$ 

 $P_1 = 5kw = 5 \times 10^3 \text{ W}$   $h_w = 1500 \text{ rpm}$ 

ng = 75 rpm. Ka = 1.25 FOS = 2 b = 0.73 dw  $K = 0.685 \text{ N/mm}^2.$  a = 10  $gn = 14.5^{\circ}$  M = 0.03  $\Delta T = 50^{\circ} C.$ 

1) Design gear pair 2) Power Jost 3) Necessity

Calculate beam strength of worm gear :-

**M.M.C.O.E.** 

Date: Page No.:

$$F_b = 6bg = b \cdot m \times cos \lambda$$

$$6bg = (Sut)a = 240 = 80 \text{ N/mm}^2$$

$$b = 0.73 \, d\omega = 0.73 \times m \times g = 0.73 \times m \times 10$$
  
= 7.3 mm.

$$G = N_W = Z_Q = 1500 = Z_Q$$
 $N_G = Z_W = 75 = 2$ 

$$Z_{q} = 40$$

$$y = 0.39 - 2.15 = 0.39 - 2.15 = 0.3362$$

$$\frac{\tan \lambda = z\omega = 2}{9}$$

$$\lambda = 11.31^{\circ}$$

$$F_b = 80 \times 7.3 \times m \times m \times 0.3362 \times (05)$$

$$F_b = 192.5279 \text{ m}^2 \text{ (N)}$$

Calculate wear strength of worm gear Fw = dq. b. K

$$dq = m \cdot Zq = 40m$$

$$dg = m \cdot Zg = 40m$$
 $Fw = 40m \times 7.3m \times 0.685$ 

 $F_W = 200.02 \, \text{m}^2 \, (\text{N})$ 

## M.M.C.O.E.

Page No.

Date

As For Fw gear pair is weaker in bending. Hence gear pair should be designed for safted safety against bending failure.

Calculate effective load on worm gear :-

$$V_g = T dq nq = T \times 40 m \times 75$$

Vq = 0.157 m × 103 mm/sec = 157 mm/sec

$$K_V = G = G$$

$$G + V_Q = G + 0.157 \text{ m}$$

$$tan \phi v = u = 0.03$$

$$cos \phi \lambda = cos(14.5)$$

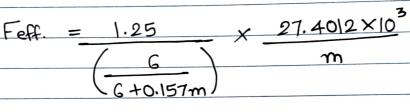
$$\frac{1 = \tan \lambda}{\tan(\emptyset \vee + \lambda)} = \frac{\tan(1.31)}{\tan(1.77 + 8 + 11.31)}$$

$$1 = \frac{Pa}{Pi}$$
;  $0.8604 = \frac{Pa}{5 \times 10^3}$ 

# M.C.O.E. Page No.: Po = Fqt x Vq 4302 = Fqt x 0.157 m.

$$Fgt = \frac{27.4012 \times 10^3}{m}$$
, N.

$$Feff. = 1.25 \times 27.40$$



$$Feff = \frac{5180}{5708.5} \frac{5708.5 (G+0.157m)}{m}$$

$$F_b = F05 \times Feff.$$

$$f_b^2 = 2 \left[ 34.2515 \times 10^3 + 896.2 + 75 m \right]$$

$$\frac{192.5279 \text{ m}^2 = 2}{m} = \frac{34.2515 \times 10^3 + 896.2 + 75 \text{ m}}{m}$$

96.2639 m² = 34.2515 pox 10 m + 896.2475 m

M.M.C.O.E.

Page No.:

Date:

$$b = 0.73 dw = 0.73 \times 80 = 58.4 mm$$

$$L = PaZ_w = 25.1372x2 = 50.2654 mm$$

$$L_{\omega} = T_{im} \left[ \begin{array}{c} 4.5 + Z_{P} \\ \hline 50 \end{array} \right] = T_{X}B \left[ \begin{array}{c} 4.5 + 40 \\ \hline 50 \end{array} \right]$$

$$L_{(1)} = 133.2033 \text{mm}$$

$$h_V = 1.25 \, \text{m} = 1.25 \, \text{x} \, 8 = 10 \, \text{mm}$$

$$CD = \frac{dw + dq}{2} = \frac{80 + 320}{2} = 200 \text{ mm}$$

To check whether FOS is required for gearbox

$$A = 1.14 \times 10^{-4} \times a^{1.7}$$

$$= \frac{1.14 \times 10^{-4} \times a}{1.14 \times 10^{-4} \times (2\omega)^{1.7}}$$

$$= 0.9303 \text{ m}^2$$

M.M.C.O.E.

Page No.: Date:

 $5 \times 10^{3} (1-0.8604) = h(0.9303 \times 50)$ 

 $h = 15 \text{ W/m}^{20} \text{C}.$ 

As required connection heat transfer coefficient less than 18 W/m²°C it means natural air is sufficient hence for it is not required.

DD Wes



#### **COLLEGE OF ENGINEERING**

S.No.18, Plot No.5/3, Karvenagar, Pune-411 052

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Recipient of 'Best College Award 2019' of SPPU

Recognized under section 2(f) and 12B of UGC Act 1956

### **Internal Assessment**

Seminar-Project Review Sheet

Logbook BE projects 2018-19

### Marathwada Mitra Mandal's COLLEGE OF ENGINEERING, PUNE

Accredited with 'A' Grade by NAAC

#### DEPARTMENT OF COMPUTER ENGINEERING

Group ID : 1817

Name of Project: Smart, Healthcare system - Disease

Prediction

#### Team Members

Roll No.	Exam No.	Name of Student	TE Result	Mobile Number
168	B150454315	Adwait B. Tapale	6.74	7507450973
116		Mayur R. Dhage	6.9	950333820
TO SEE LE	B150454303	A Same William State of the Sta	6.76	9595262578
100	B150454232	SERVER BOOK SERVER STORY	7.1	904973072
123	My CAN			

#### **Guide Details**

Guide / Mentor	Name	Organization & Address	Email ID	Mobile Number
Internal	Mrs. Asma Skaikh	ЛЛСОЕ	asmamokashi@ mmcoe.edu.in.	9579489592
External	Joseph.	Bel- Lir (Red Cars)		9420464737
Alumni				

#### Project Review - I

Date: (4th week of June):

Time (From-To):

The group members are expected to work on the synopsis of the project in Project Review-I. *The review is be taken by the guide once in a week and remark to be given for further improvements till the Project Review – I (Evaluation)*. Project Review-I is a Synopsis review, it is based on Problem Statement, Motivation, Goals & Objectives and Literature survey. Following are set of questions for Review – I.

Sr. No.	Question	Remark by Guide	
1	Have students identified research gap to find motivation of the project? If not then give suggestions.	Very Good.	
Is problem statement concise and give clear identification about what the project will accomplish? If not then give suggestions.		very Good	
3	Have students done sufficient literature survey taking into consideration of latest papers and available software or system?If not then give suggestions.	Very Good	
4	Are project goals and objectives clearly defined? Do the objectives defined will achieve the goal? If not then give suggestions.	Very Good	
5	Is scope of the project sufficient as BE project for the given number of students? Support Yes/No with why?	Yes	
6	Does the project contribute to solve real life problems, social problems or any research problems? If not then give suggestions to make such contribution.	Yes	

#### Project Review – I

Date: (1st week of July):

Time (From-To):

The group members are expected to improve on the remarks given in the previous review. *The review is to be taken by the guide once in a week and remark to be given for further improvements till the Project Review – I (Evaluation)*. Project Review-I is a Synopsis review, it is based on Problem Statement, Motivation, Goals & Objectives and Literature survey. Following are set of questions for Review – I.

Sr. No.	Question	Remark by Guide	
1	Have students identified research gap to find motivation of the project? If not then give suggestions.	Yes	
2	Is problem statement concise and give clear identification about what the project will accomplish? If not then give suggestions.	Yes	
3	Have students done sufficient literature survey taking into consideration of latest papers and available software or system?If not then give suggestions.	Yes	
4	Are project goals and objectives clearly defined? Do the objectives defined will achieve the goal? If not then give suggestions.	Yes	
5	Is scope of the project sufficient as BE project for the given number of students? Support Yes/No with why?	Yes	
6	Does the project contribute to solve real life problems, social problems or any research problems? If not then give suggestions to make such contribution.	Yes	

#### Project Review – I (Evaluation) Date: (3rd week of July):

Students are expected to deliver presentation covering Problem Statement, Motivation, Goals & Objectives and Literature Review. Project evaluation panel members should assess based on following points and assign relevant grades.

defined, Not clearly defined, need to update with major changes  Not identified
late with need to update with major changes
notivation Not identified
motivation for the project
Goals are not clearly identified. It needs major changes
Objectives are not clearly identified. It needs major changes
Literature survey need to be done with major changes

Note: Marks '0' to be given, if student has done nothing or absent

Name of Reviewer	Remark	Sign
Asma should	Good	Ne

#### Project Review - II

Date: (2nd week of July):

Time (From-To):

The group members are expected to work on the SRS of the project in Project Review-II. *The review is be taken by the guide once in a week and remark to be given for further improvements till the Project Review – II (Evaluation)*. Project Review-II is SRS review, it is based on identification of data and their relationships, functional and non-functional requirements, use cases, feasibility study, identifying hardware and software requirement and constraints of the project and cost estimates. Following are set of questions for Review – II.

Sr. No.	Question	,Remark by Guide	
1	Have students identified in detail the functional and non functional requirements? Do they completely justify the scope of the project? If not then give suggestions for improvements.	Done as per the requirement	
2	Does the project requirements feasible to implement in the given duration? If not then give suggestions for improvements?	Yes	
3	Have students identified use cases of the project in detail? If not then give suggestions for improvements.	Yes	
4	Have students identified in detail the relevant data and their relationships? Have they represented data relationship using DFD? If not then give suggestions for improvements?	Yes	
5	Have students identified in detail cost estimates using Function point analysis or COCOMO model or other? If not then give suggestions	Yes	
6	Have students identified constraints of the project? Have they performed in detail risk analysis, management and mitigation?	Yes	
7	Have students identified hardware and software requirement? Have they worked on deployment of the project?	Yes	

#### Project Review - II

Date: (3rd week of July):

Time (From-To):

The group members are expected to work on the suggestions given in previous review. *The review is be taken by the guide once in a week and remark to be given for further improvements till the Project Review – II (Evaluation)*. Project Review-II is SRS review, it is based on identification of data and their relationships, functional and non-functional requirements, use cases, feasibility study, identifying hardware and software requirement and constraints of the project and cost estimates. Following are set of questions for Review – II.

Sr. No.	Question	Remark by Guide
1	Have students identified in detail the functional and non functional requirements? Do they completely justify the scope of the project? If not then give suggestions for improvements.	Yes
2	Does the project requirements feasible to implement in the given duration? If not then give suggestions for improvements?	Yes
3	Have students identified use cases of the project in detail? If not then give suggestions for improvements.	Yes
4	Have students identified in detail the relevant data and their relationships? Have they represented data relationship using DFD? If not then give suggestions for improvements?	Yes
5	Have students identified in detail cost estimates using Function point analysis or COCOMO model or other? If not then give suggestions	Yes
6	Have students identified constraints of the project? Have they performed in detail risk analysis, management and mitigation?	Yes
7	Have students identified hardware and software requirement? Have they worked on deployment of the project?	Yes

#### Project Review - II

Date: (3rd week of August):

Time (From-To):

The group members are expected to work on the suggestions given in previous review. *The review is be taken by the guide once in a week and remark to be given for further improvements till the Project Review – II (Evaluation)*. Project Review-II is SRS review, it is based on identification of data and their relationships, functional and non-functional requirements, use cases, feasibility study, identifying hardware and software requirement and constraints of the project and cost estimates. Following are set of questions for Review – II.

Sr. No.	Question	Remark by Guide
1	Have students identified in detail the functional and non functional requirements? Do they completely justify the scope of the project? If not then give suggestions for improvements.	Good
2	Does the project requirements feasible to implement in the given duration? If not then give suggestions for improvements?	Yes
3	Have students identified use cases of the project in detail? If not then give suggestions for improvements.	Very Good
4	Have students identified in detail the relevant data and their relationships? Have they represented data relationship using DFD? If not then give suggestions for improvements?	Yes
5	Have students identified in detail cost estimates using Function point analysis or COCOMO model or other? If not then give suggestions	Yes
6	Have students identified constraints of the project? Have they performed in detail risk analysis, management and mitigation?	Very Good
7	Have students identified hardware and software requirement? Have they worked on deployment of the project?	Good

#### Project Review - III

Date: (1st week of Sept):

Time (From-To):

The group members are expected to work on Project design. *The review is be taken by the guide once in a week and remark to be given for further improvements till the Project Review – III (Evaluation)*. Project Review–III is Software Design review, it is based on identification of architectural/system diagram, relevant data structures and algorithm and UML digrams. Following are set of questions for Review – II.

Sr. No.	Question	Remark by Guide	
1	Have students identified system architecture in detail? Which justifies the scope and use cases of the project?If not give suggestions for improvements.	Very Good	
2	Have students identified relevant data structures/databases/ER Diagram in detail to implement the system specified in SRS document? If not give suggestions for improvements	G000	
3	Have students designed the system using relevant UML diagrams (Class, Component, Activity etc.? Is it correctly identified as per the standards? If not give suggestions for improvements	Good	
4	Have students designed relevant algorithms to implement the system specified in SRS document? If not give suggestions for improvements	Very Good	
5	Have students performed detailed analysis of the designed algorithm as per Asymptotic notations/frequency count / recurrence relations? If not give suggestions for improvements.	Yes	
6	Have students correctly identified and used SDLC for the implementation of the project? If not give suggestions for improvements.	Yes	

#### Project Review - III

Date: (2nd week of Sept):

Time (From-To):

The group members are expected to work on the suggestion given in previous review. *The review is be taken by the guide once in a week and remark to be given for further improvements till the Project Review – III (Evaluation)*. Project Review-III is Software Design review, it is based on identification of architectural/system diagram, relevant data structures and algorithm and UML digrams. Following are set of questions for Review – II.

Sr. No.	Question	Remark by Guide	
1	Have students identified system architecture in detail? Which justifies the scope and use cases of the project?If not give suggestions for improvements.	Yes	
2	Have students identified relevant data structures/databases/ER Diagram in detail to implement the system specified in SRS document? If not give suggestions for improvements	Good	
3	Have students designed the system using relevant UML diagrams (Class, Component, Activity etc.? Is it correctly identified as per the standards? If not give suggestions for improvements	Yes	
4	Have students designed relevant algorithms to implement the system specified in SRS document? If not give suggestions for improvements	Yes	
		Village Control	
5	Have students performed detailed analysis of the designed algorithm as per Asymptotic notations/frequency count / recurrence relations? If not give suggestions for improvements.	Yes	
6	Have students correctly identified and used SDLC for the implementation of the project? If not give suggestions for improvements.	Good	

#### Project Review - III

Date: (3rd week of Sept):

Time (From-To):

The group members are expected to work on the suggestion given in previous review. *The review is be taken by the guide once in a week and remark to be given for further improvements till the Project Review – III (Evaluation)*. Project Review-III is Software Design review, it is based on identification of architectural/system diagram, relevant data structures and algorithm and UML digrams. Following are set of questions for Review – II.

Sr. No.	Question	Remark by Guide
1	Have students identified system architecture in detail? Which justifies the scope and use cases of the project?If not give suggestions for improvements.	Very Good
2	Have students identified/designed relevant data structures/databases/ER Diagram in detail to implement the system specified in SRS document? If not give suggestions for improvements	Yes
3	Have students designed the system using relevant UML diagrams (Class, Component, Activity etc.? Is it correctly identified as per the standards? If not give suggestions for improvements	Yes
4	Have students used algorithmic strategy and designed relevant algorithms to implement the system specified in SRS document? If not give suggestions for improvements	Good
5	Have students performed detailed analysis of the designed algorithm as per Asymptotic notations/frequency count / recurrence relations? If not give suggestions for improvements.	Yes
6	Have students correctly identified and used SDLC for the implementation of the project? If not give suggestions for improvements.	Yes

### Project Review - III (Evaluation) Date: 4th week of September

Parameter	Marks			
	9-10	5-8	0-4	
System Architecture	Clearly designed and justifies the scope of the project	Not clearly designed, need to update with minor changes	Not clearly designed, need to update with major changes	9
Data structures / Databases / ER Diagram	Clearly designed and justifies the scope of the project	Not clearly designed, need to update with minor changes	Not clearly designed, need to update with major changes	9
UML diagrams (Class, Component, Activity etc.)	UML diagrams are designed in detail as per standards	UML diagrams are are not designed in detail as per standards, need minor changes	UML diagrams are are not designed in detail as per standards, need major changes	9
Algorithmic strategy & Design of Algorithms	Algorithms are designed in detail and clearly specifies, input, output and algorithmic steps	Algorithms are not designed in detail and clearly specifies, input, output, need minor changes	Algorithms are not designed in detail and clearly specifies, input, output, need major changes	8
Algorithmic Analysis	Algorithm analysis is done in detail using frequency count / recurrence	Algorithm analysis is not done in detail etc. Need minor changes	Algorithm analysis is not done in detail etc. Need major changes	7
Software Development Life Cycle	Correctly identified and applied the SDLC, it justifies type of project.	Correctly identified but not correctly applied the SDLC. Need minor changes in applying SDLC	Not correctly identified the SDLC. Need major changes in applying SDLC	7

Note: Marks '0' to be given, if student has done nothing or absent

Name of Reviewer	Remark	Sign
Asma Shaikh	Good, head improvement	b
		,

## Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

Karvenagar, Pune- 52
Accredited with 'A Grade' by NAAC

## Department of Mechanical Engineering

TE Mechanical Seminar First Review 2018-19 Sem II

Sr. No	Roll No	Name of the Student	Seminar Topic	Sign of Student	Marks out of 10	Remark
1		Alashay Swoesh Mane	Automatée Water Tap Sonorolsysem	Res.	03	
2	147	Shridhar Krishna Myakal.	Velocity control using Incoders.	1) typhat.	0,9	
3	151	Shindtar Akeish Manoj	Friction stir Helding Process in Piezo-electric generator	Skash	07	
4	152	Amey Milind Kulkarini	30 Printing using hetergeneous	Mulkarni	06	
5	153	Shreyas Suyog Naik	Design & analysis of Venturi For KTM Duke 390	smaik	08	
6	154	Akshay Rahul Gadia	Design and performance analysis of	. 01/	09	
7	155	Sandesh. Romdas Gajore	Doign modification & analysis of	Boy	08	
8	156	Pratik A. Direct	performance and enomission analysis of bioducid power vehicles	Pedul	08	
9	157	Mena. P. Charan	Solar vapour absorption system	nhavan	07	
10	158	Himani Limaye	CFD Analysis of High Pressure Steam Turbine blades.	Human	08	
11	159	Vaibhau tokare	Li-fi a Technology	Com	08	
12					M2	

Name & Sign of Guide

(H. C. Pisal)

## College of Engineering,

Karvenagar, Pune-52

## **Department of Mechanical Engineering**

A.Y. 2018-19 Sem-II

First Review Assessment Sheet for T. E. Seminar

Date: [6/04/9

Name of Student:

Roll No.: 146

Assessment Points		Circle appropriate score 3 – very good, 2- Average 1 – poor		
Sufficient background information is presented		3	2	(1)
Quality of Literature referred		3	2	<u>(1)</u>
Student responds adequately to technical questions	ė	3	2	(1)

Name of Student:

Roll No.: 147

Assessment Points	Circle 3 – very goo	Circle appropriate score 3 – very good, 2- Average 1 – poor				
Sufficient background information is presented	3	2	1			
Quality of Literature referred	3	2	1			
Student responds adequately to technical questions	! 3	2	1			

Name of Student:

Roll No .: 151

Assessment Points	Circ 3 – very go	Circle appropriate score 3 – very good, 2- Average 1 – poor			
Sufficient background information is presented	. 3	(2)	1		
Quality of Literature referred	3	(2)	1		
Student responds adequately to technical questions	3	2	1		

Name of Student:

Roll No.: 152

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor		
Sufficient background information is presented	(SX)	2 '	(1) ·
Quality of Literature referred	3	2	1 .
Student responds adequately to technical questions	3	(2)-	1

Internal Examiner

Seminer Guide

MMCOE/Academics/Mech/28/2018-19

## College of Engineering,

Karvenagar, Pune-52
Department of Mechanical Engineering
A.Y. 2018-19 Sem-II

First Review Assessment Sheet for T. E. Seminar

Date: 16/2/19

Name of Student:

	Roll No.: /	53	
	Circle 3 – very good	appropriat , 2- Averag	e score e 1 – poor
•	(3)	2	1

Assessment Points	3 – very good, 2- Average 1 – poor			ge 1 – poor
Sufficient background information is presented	. 3		2	1
Quality of Literature referred	(3)	,	2	1
Student responds adequately to technical questions	3		(2)	1

Name of Student:

Roll No.: 154

Assessment Points  Circle appropriate score  3 – very good, 2- Average 1 –				
Sufficient background information is presented	3 (2) 1			
Quality of Literature referred	3	2	1 .	
Student responds adequately to technical questions	3	2	1	

Name of Student:

Roll No.: 155

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor					
Sufficient background information is presented	3	(2)	1			
Quality of Literature referred	3	$\binom{2}{2}$	1			
Student responds adequately to technical questions	(3)	2	1			

Name of Student:

Roll No.: 156

Assessment Points 3			Circle appropriate score 3 – very good, 2- Average 1 – poor			
Sufficient background information is presented	, kro.	3	(2)	1,		
Quality of Literature referred		3	(2)	1		
Student responds adequately to technical questions		(3)	2	1		

Internal Examiner

Seminar Guide

## College of Engineering,

Karvenagar, Pune-52

## Department of Mechanical Engineering A.Y. 2018-19 Sem-II

First Review Assessment Sheet for T. E. Seminar

Date: 16/21/9

Name of Student:

Roll No.: 157

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor			
Sufficient background information is presented		3	(2)	1
Quality of Literature referred		3	2	1
Student responds adequately to technical questions	a•	3	$\left( \begin{array}{c} 2 \end{array} \right)$	1

#### Name of Student:

Roll No.: 158

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor				
Sufficient background information is presented	(3)	2	1		
Quality of Literature referred	3	(2)	1		
Student responds adequately to technical questions	; 3	(2.)	1		

#### Name of Student:

Roll No. : 159

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor		
Sufficient background information is presented	(3)	2	1
Quality of Literature referred	3	(2)	1
Student responds adequately to technical questions	3	12)1	1

#### Name of Student:

Roll No.:

Assessment Points			appropriate score l, 2- Average 1 – poor		
Sufficient background information is presented		3	2	10	
Quality of Literature referred		3	2	1	
Student responds adequately to technical questions		3	2	1	

Semmar Guide



#### COLLEGE OF ENGINEERING,

Karvenagar, Pune- 411052

Department of Mechanical Engineering
TE Mechanical Seminar Second Review 2018-19 Sem II

			TE Mechanical Seminar Second Review 2018-19 Sem II		Date:	25/13/19
Sr. No	Roll No	Name of the Student	Seminar Topic	Sign of Student	Marks out	
1	TMA146	AKSHAY SURESH MANE	Automatic water top (ontan)	leo.	08	
2	TMA147	SHRIDHAR KRISHNA MYAKAL	Velouity controls using Incoders	Bychal	14	
3	TMA151	AKASH MANOJ SHIRODKAR	Friction Stir Welding	Stern	10	
4	TMA152	AMEY MILIND KULKARNI	Oud extrusion homogeneous	AME:	11/2	
5	TMA153	SHREYAS SUYOG NAIK	Design of Venturi for KTM 390	Smail	13	
6	у <b>Ж</b> МА154	AKSHAY RAHUL GADIA	Underwater Turbines	My	14	1 4
7	TMA155	SANDESH RAMDAS GAJARE	Design analysis of Vertical Axis	Al.	12	-
8	TMA156	PRATIK ANIL DIXIT	Brodresel emission effects	Peath	12	
9	TMA157	NEHA PRAKASH CHAVAN	Solar powered vapour absorption system	Thoma	11	
10	TMA158	HIMANI MAHESH LIMAYE	CFD Analysis of High Pressure Steam Tumbine Blades.	Howaye	1/+01	=12 6
11	TMA159	VAIBHAV ANIL KOKARE	Li-Fi- Technolog 7	<u></u>	12	

Prof. C. Pisal Guide

## Marathwada Mitra Mandal's College of Engineering,

Karvenagar, Pune-52 **Department of Mechanical Engineering** A.Y. 2018-19 Sem-II

## Second Review Assessment Sheet for T. E. Seminar

Name of Student: Akshay Mane

Roll No.: 7794-146

Assessment Points	Circl 3 – very god	Circle appropriate score 3 – very good, 2- Average 1 – poor			
Data Collected	3	2			
Seminar Report Status	3	2	1 -		
Presentation ( PPT Organization )	3	2	<u></u>		
Communication Skill	3	(2)	1		

Name of Student: Shridhar Myakal Roll No.: TMA-147

Assessment Points	Circle 3 – very good	Circle appropriate score 3 – very good, 2- Average 1 – poor		
Data Collected	3	2 .	1,	
Seminar Report Status	<b>(3</b> )	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Presentation ( PPT Organization )	<u> </u>	2	1	
Communication Skill	(3),	2	1	

Name of Student: Akash Shirodkar

Roll No.: TMALTI,

Assessment Points	2	Circle appropriate score 3 – very good, 2- Average 1 – poor		
Data Collected	m n en	3 2 1		
Seminar Report Status		3 2 2 1		
Presentation ( PPT Organization )		3 (2) 1 .		
Communication Skill		3 2 2 1		

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Semmar Guide

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## College of Engineering,

Karvenagar, Pune-52 **Department of Mechanical Engineering** A.Y. 2018-19 Sem-II

Second Review Assessment Sheet for T. E. Seminar

Date:

Name of Student: Amey Kulkarni

Roll No. : 779A-152

Assessment Points	C 3 – very	ircle appropri good, 2- Avera	ate score age 1 – poor
Data Collected	3	(2)	1
Seminar Report Status	2		2 (1) (1)
Presentation ( PPT Organization )	3	(2)	1 , 1
Communication Skill	(3)	2	1
- Sammunication Skill	3	(2)	1.

Name of Student: Shreyah Naik. Roll No.: MALB

Assessment Points	Circle appropriate score
Data Collected	3 – very good, 2- Average 1 – poor
Seminar Report Status	3 2 con10
Presentation (PPT Organization)	3 ② 1
Communication Skill	2 1
Pensoni di sari	

Name of Student: Akshay Gadin

Roll No.: TMA-184

Assessment Points	all .		Circle appro 3 – very good, 2- A	priate score
Data Collected	A second		(3)	verage 1 - poor
Seminar Report Status	Acad es.		$\frac{3}{3}$	1.000
Presentation ( PPT Orga	anization )		(3)	1
Communication Skill	The state of the s	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	(3) 2	The state of the s

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Seminar Guide

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## College of Engineering,

Karvenagar, Pune-52
Department of Mechanical Engineering
A.Y. 2018-19 Sem-II

Second Review Assessment Sheet for T. E. Seminar

Date: 05 04 19

Name of Student: Sandesh Gayare

Roll No.: 7MAINS

Assessment Points	3 –	Circle very goo	appropriat d, 2- Averag	te score ge 1 – poor
Data Collected		3	(2)	1
Seminar Report Status		3	(2)	1
Presentation ( PPT Organization )		3	2	1
Communication Skill	/	3	2	1

Name of Student: Pratik Dikit

Roll No.: TMA-156

Assessment Points	3 – very	Circle appropa good, 2- Ave	riate score rage 1 – poor
Data Collected	(3)	2	sc. 10
Seminar Report Status	. 3	(2)	1 1 1
Presentation ( PPT Organization )	3	2	1
Communication Skill	3	$\frac{1}{2}$	1

Name of Student: Ncha Chavan

Roll No.: TMA/J7

Assessment Points	e de la companya de l		Circle 3 – very good	appropriat , 2- Averag	e score se 1 – poor
Data Collected		; <del>-</del>	3.	2	1
Seminar Report Status		1.5-	3	2	i Imen
Presentation ( PPT Organization )			3	2	1
Communication Skill		- 1	3	(2)	1

Interval Examiner

Seminar Guide

### Marathwada Mitra Mandal's College of Engineering,

Karvenagar, Pune-52 Department of Mechanical Engineering A.Y. 2018-19 Sem-II

Second Review Assessment Sheet for T. E. Seminar

Date: 05

Name of Student: Himani Limaye Roll No.: TMA 158.

Assessment Points	Circle 3 – very goo	e appropri d, 2- Avera	ate score age 1 – poor
Data Collected	~ <b>3</b>	(2)	1.1
Seminar Report Status	3	2	1
Presentation ( PPT Organization )	3	2	1
Communication Skill	3	(2)	1

Name of Student: Vaib hav Kokare

Roll No.: 7MAUS9

Assessment Points	Circl 3 – very go	e appropriat od, 2- Averag	te score ge 1 – poor
Data Collected	3	2	<b>1</b> , 11
Seminar Report Status	3	2	1
Presentation (PPT Organization)	3	(2)	1
Communication Skill	3	2	1

Name of Student:

No.:

Assessment Points		3 – very	Circle a	appropriat , 2- Averag	e score ge 1 – poor
-Data Collected	W L	3	-	2	4.1
Seminar Report Status	1,	3	500	2	1.
Presentation ( PPT Organization )		3		2	1
Communication Skill	- 517 75	3	Ţ.	2-	1

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# Marathwada Mitra Mandal's COLLEGE OF ENGINEERING

Karvenagar, Pune-52
Accredited with 'A Grade' by NAAC

# Department of Mechanical Engineering

TE Mechanical Seminar First Review 2018-19 Sem II

E						12
	L	Abdinan	Eddy current braking system	Abhishek. Pagnis	268	11
	ی د	The second	1 1	Shantanu. O. Gayakwad	267	10
	8	(Baller	Hydraulic Hybrid Vehicle	Rahul A. Chopade	288	9
	8		Contections Types of	Pitush My Sumya wanshi	264	8
	ي .	Character	TRi-cycle orienter machine	Sandip S. Tayade	265	7
3	2 4	Shortward.	System on diesel Engine	Prishvi Ashat Salve	203	6
	2 0	Howard !	1 .	Diguijay Dilip Sowont	262	5
	• ∞	A.	n cot	Sgrade Jumini Dipak	261	4
	ء د	James 155		Saurabh Sudhir Sawant	2 60	ω
	+	No.	powered	Kavita Vijay Roundale	259	2
	1 4		Steath Technology	Onlear Subhush, Roledde	258	1
Remark	of 10	ıdent	Seminar Topic	Name of the Student	Roll No	Sr. No
•	Marke out					

Name & Sign of Guide

### College of Engineering,

Karvenagar, Pune-52

### **Department of Mechanical Engineering**

A.Y. 2018-19 Sem-II

First Review Assessment Sheet for T. E. Seminar

Date: 16/02/19

Name of Student: Onkar Subhash Rokade Roll No.: 258

Assessment Points		e appropriat od, 2- Averag	
Sufficient background information is presented	. (3)	2	1
Quality of Literature referred	3	(2)	1
Student responds adequately to technical questions	. 3	2	1

Kavita Vijay Raundale Roll No.: 259 Name of Student:

Assessment Points	Circle 3 – very goo	appropriat d, 2- Averag	
Sufficient background information is presented	3	2	1
Quality of Literature referred	3	2	1
Student responds adequately to technical questions	; 3	2	1

Name of Student: Subham sudliv Sawont. Roll No.: 260

Assessment Points	Circle a	appropriat , 2- Averag	
Sufficient background information is presented	. 3	· ②	1
Quality of Literature referred	3	2	1
Student responds adequately to technical questions	(3)	2	1.

Name of Student: Sorewade furning Dipak Roll No.: 261

Assessment Points	Circle a 3 – very good	appropriate , 2- Average	
Sufficient background information is presented	3	<b>2</b>	1
Quality of Literature referred	3	2	1
Student responds adequately to technical questions	3	(2)	1

R.P. Tadakhe

Seminar Guide

### College of Engineering,

Karvenagar, Pune-52

# Department of Mechanical Engineering

A.Y. 2018-19 Sem-II

First Review Assessment Sheet for T. E. Seminar

Date: 16/02/19

Name of Student:

Digrijoy Dilip Sowont Roll No .: 262

Assessment Points	Circle 3 – very goo	appropria d, 2- Avera	ite score ge 1 – poor
Sufficient background information is presented	3	2	1
Quality of Literature referred	(3)	2	1
Student responds adequately to technical questions	. 3	(2)	1

Name of Student: Prithvi. A. Salve Roll No.: 263

Assessment Points	Circl 3 – very god	e appropria od, 2- Avera	
Sufficient background information is presented	(3)	2	1
Quality of Literature referred	3	. 2	1
Student responds adequately to technical questions	; 3	(2)	1

Name of Student:

Piyush suryawallsh' Roll No.: 264

Assessment Points	Circle a 3 – very good	appropriat , 2- Averag	e score e 1 – poor
Sufficient background information is presented	3	2	1
Quality of Literature referred	3 ·	2	1
Student responds adequately to technical questions	3	2	1

Name of Student: Sandip S. Tayade

Roll No.: 265

Assessment Points	Circle 3 – very god	e appropriat od, 2- Averag	te score ge 1 – poor
Sufficient background information is presented	3	2	1;
Quality of Literature referred	$\cdot$ $3$	2	1
Student responds adequately to technical questions	(3)	2	1

R.P. Tadakhe

Seminar

### College of Engineering,

Karvenagar, Pune-52

### **Department of Mechanical Engineering**

A.Y. 2018-19 Sem-II

First Review Assessment Sheet for T. E. Seminar

Date: 16/02/19

Name of Student: Rahy A. Chopade

Roll No .: 266

Assessment Points	Circle	appropriat	te score se 1 – poor
Sufficient background information is presented	3	(2)	1
Quality of Literature referred	3	2	1
Student responds adequately to technical questions	3	(2)	1

Name of Student: Shantanu . U. Gayakwad Roll No.: 267.

Assessment Points	Circle 3 – very goo	appropria d, 2- Averaș	
Sufficient background information is presented	3	2	1
Quality of Literature referred	3	2	1 :
Student responds adequately to technical questions	; 3	(2)	1

Roll No.: 268 Name of Student: Abhishek. Pagnis

Assessment Points	Circle 3 – very good	appropriat l, 2- Averag	
Sufficient background information is presented	3	2	1
Quality of Literature referred	3	<b>3</b>	1
Student responds adequately to technical questions	3	2	. 1

### Name of Student:

Roll No.: 2

Assessment Points	Circle a 3 – very good	appropriat , 2- Averag	
Sufficient background information is presented	3	2	1
Quality of Literature referred	3	2 ,	1 .
Student responds adequately to technical questions	3	2	1

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Karvenagar, Pune- 411052

I E MECHANICA Semina Second Review Este 17 Seminary	Training Second Review 2018-19 Sem II	Department of Mechanical Engineering
Date:		

	$ \overline{\ } $	Aurinday	Eddy (urrent Braking Systim	TMB268 ABHISHEK MANISH PAGNIS	TMB268	=
	13		(bal garification	TMB267 SHANTANU UDAY GAYAKWAD	TMB267	10
	13	Baland	B Hydraulic Hybrid Vehicle	TMB266 RAHUL ANURUDRA CHOPADE	TMB266	9
	14	हिला राजेर	Talcycle oriented martine	TMB265 SANDIP SHRIKRUSHNA TAYADE	TMB265	∞
	13	SHEY	Cat lo	TMB264 PIYUSH M. SURYAWANSHI	TMB264	7
	14	Phithwise	Exhaust tras Recir culation	PRITHVI ASHOK SALVE	TMB263	6
	13	Brook		DIGVIJAY DILIP SAWANT	ТМВ262	5
	~ ~		be Jubricotton s	LUMINI DIPAK SARWADE	TMB261	4
	1/3	Jamob!	Robotic Arc Welding	TMB260 SAURABH SUDHIR SAWANT	TMB260	ω
	2		Kavita Vijay Raundale	TMB259 KAVITA VIJAY RAUNDALE	TMB259	2
	12	Gran -	Steath Technology	TMB258 ONKAR SUBHASH ROKADE	ТМВ258	_ [
of 15 Remark	Marks out of 15	Sign of Student	Seminar Topic	Name of the Student	Roll No	Sr.

Prof. R. S. Yadav Guide

### College of Engineering,

Karvenagar, Pune-52
Department of Mechanical Engineering
A.Y. 2018-19 Sem-II

### Second Review Assessment Sheet for T. E. Seminar

Date: 9503119

Name of Student: Onkor Roleade

Roll No.: 258

Assessment Points		Circle appropriate score 3 – very good, 2- Average 1 – poo			
Data Collected		(3)	2	1	
Seminar Report Status	y	3	(2)	1	
Presentation ( PPT Organization )	*	3	2	1	
Communication Skill		3	(2)	1	

1) Name of Student: Kavita Raundale

Roll No.: TMB259

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor		
Data Collected	(3)	2	100 10 T
Seminar Report Status	3	2	1
Presentation ( PPT Organization )	3	2	1
Communication Skill	(3)	2	1

Name of Student: Souro Bha Sawo At

Roll No.: TMB 260

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poo			e score se 1 – poor
Data Collected		(3)	2	1111 - S
Seminar Report Status		(3)	2	1,5.
Presentation ( PPT Organization )	100	3	2	1
Communication Skill		3	(2)	1

Internal Examiner

Seminar Guide

# College of Engineering,

Karvenagar, Pune-52

# Department of Mechanical Engineering

A.Y. 2018-19 Sem-II

Second Review Assessment Sheet for T. E. Seminar

ame of Student: Lumini Sarawacle

Roll No. : TMB 26 1

Name of Students Woods 117 John of the					
Assessment Points	Circle 3 – very goo	Circle appropriate score 3 – very good, 2- Average 1 – poor			
* 110 "	3	2	1		
Data Collected	(3)	2	1		
Seminar Report Status	3	(2)	1		
Presentation ( PPT Organization )	3	(2)	1		
Communication Skill			1		

Name of Student: Digvisay Sawant

Roll No.: TMB262

Assessment Points	Circle appropriate score y good, 2- Average 1 – poor			
Data Collected	3			
Seminar Report Status	3	2	1 1 1	
Presentation (PPT Organization)	3	2	1	
Communication Skill	(3)	2	1	

Name of Student: Prithing salve

Roll No.: ' & TMB 263

71.171				
Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor			
Data Collected		(3)	2	1
Seminar Report Status		3	2	
Presentation ( PPT Organization )	,	3	2	1 .
Communication Skill	-	3	2	1

Internal Examiner

Seminar Guide

MMCOE/Academics/Mech/28/2018-19 TATTATE CONTRACTOR TO THE TATE OF THE TATTO - 17

# Marathwada Mitra Mandal's College of Engineering,

Karvenagar, Pune-52
Department of Mechanical Engineering
A.Y. 2018-19 Sem-II

# Second Review Assessment Sheet for T. E. Seminar

Date: 25/03/19

Name of Student: Piyush Surya wa	ushi Roll No.: TMB 264.	
Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor	
Data Collected	3 (2) 1.	
Seminar Report Status	3 (2) 1	
Presentation ( PPT Organization )	3 (2) 1	
Communication Skill	3 (2) 1	

Name of Student: Sandir Tatade

Roll No.: TMB265

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor				
Data Collected	(3)	2	471 m		
Seminar Report Status	3	(2)	1		
Presentation (PPT Organization)	3	(2)	1		
Communication Skill	(3) 2				

Name of Student: Rahul Chopade

Roll No.: TMB266

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor			
Data Collected	3	2	1	
Seminar Report Status	3	(2)	1 marine	
Presentation ( PPT Organization )	(3)	2	1	
Communication Skill	3	(2)	1	

Internal Examiner

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### College of Engineering,

Karvenagar, Pune-52 **Department of Mechanical Engineering** A.Y. 2018-19 Sem-II

Second Review Assessment Sheet for T. E. Seminar

Date: 28/64/19

Name of Student: shawam Gajakwad. Roll No.: 267 TMB.

Assessment Points	Circle appropriate score 3 – very good, 2- Average 1 – poor		e score e 1 – poor
Data Collected	3 ② 1		
Seminar Report Status	3	2	1
Presentation ( PPT Organization )	3	2	1
Communication Skill	(3)	2	1

Name of Student: Abhisher polnis Roll No.: 268 TMB

Assessment Points		Circle appropriate score 3 – very good, 2- Average 1 – poor		
Data Collected	(3)	3 2 5010		
Seminar Report Status	(3)	2	1 1 in	
Presentation ( PPT Organization )	3	2	1	
Communication Skill	(3)	2	1	

21

Name of Student:

Roll No.:

Assessment Points		. 2-2	Circle appropriate score 3 – very good, 2- Average 1 – poo		
Data Collected	9		3	2	1
Seminar Report Status			3	2	1 1000
Presentation ( PPT Organ	nization)	12	3	2	1 .
Communication Skill			3	2	1

MMCOE/Academics/Mech/28/2018-19 TATIATO CON WEGINTED TATECTA TO SOLO-17