

F.Y. Diploma Sem. II: Summer 2019

• Tel. : 022-4232 1140 • WhatsApp 7045 018 539



Group	Subject	MSBTE Examination Scheme				
		Theory Marks		Practical Marks		TOTAL
		All	Applied Mathematics	End Semester Exam (ESE)	Progressive Assessment (PA)	
70	30			-	-	

Study Material (that will be distributed to the Students)			
Notes (In Question & Answer Format with Solved Examples)	Graded Questions (GQ)	Past Exam Questions (EQ)	Past Exam Paper Solutions (EQ Solutions)

Tentative Lesson Plan

Week	Unit No.	Topic	Branches				Weightage (Marks)			Total marks	
			CO/Group	EJ/-Group	CE/Group	ME-Group	R Level (R=Remember)	U Level (U=Understand)	A Level (A=Apply & Above)		
1.	-	Introduction								Test will be conducted on each Topic after the Topic gets over. Model Solutions will be distributed immediately after the exams. Needless to say, attendance for these Unit Tests is Mandatory. 4. Tests will be supervised by the Subject Faculty.	
	1.1	Differential Calculus									
2.	1.1	Differential Calculus									
3.	1.2	Differential Calculus	✓	✓	✓	✓	4	8	12		24
4.	1.2	Differential Calculus									
5.	1.3	Differential Calculus									
6.	1.3	Differential Calculus									
7.	2.1	Integral calculus									
	Revision + Doubt Solving Session (For PT-I)										
8.	2.2	Integral calculus	✓	✓	✓	✓	2	6	8		16
9.	2.2	Integral calculus									
10.	2.2	Integral calculus									
11.	3.1	Application of definite integration	✓	✓	✓	✓	2	2	4		08
12.	3.2	Application of definite integration									
13	4.1	First Order, First Degree Differential Equations									
	Revision + Doubt Solving Session (For PT-II)		✓	✓	✓	✓	2	2	4		08
14	4.2	First Order, First Degree Differential Equations									
E*	5.	Numerical Methods	✓	-	-	-	2	5	7		14
E*	5.	Complex Number & Laplace transform	-	✓	-	-	2	5	7		14
E*	5.	Numerical Integration	-	-	✓	-	2	5	7		14
E*	5.	Probability Distribution	-	-	-	✓	2	5	7		14

Note: ♦ *Extra Lectures, if required, will be engaged and will be decided in consultation with the Students.

♦ **Personal Doubt Solving:** Personal Doubt Solving sessions will be held after each lecture.

Test No.	Topic for Test @ Vidyalankar	Test No.	Topic for Test @ Vidyalankar
1.	Differential Calculus (Derivatives)	4.	Definite Integration + Application
2.	Differential Calculus (Application of Derivatives)	5.	First Order, First Degree Differential Equation
3.	Integral Calculus (Indefinite Integration)		

Note: Preliminary Exam: Preliminary exam will be held before the MSBTE Exam. Exact schedule will be informed to students in the Class

PT Exam (MSBTE):

PT Exam	Day / Date	Exam Leave (No Lecture)	Note: Sem. II MSBTE Final Theory Exam is likely to be held from 11 April .
PT-I	In the week starting Mon, 4 Feb.	3,4,5, Feb.	
PT-II	In the week starting Wed, 20 March	19,20,21,22, March	

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Group	Subject	MSBTE Examination Scheme				
Computer	Programming in 'C'	Theory Marks		Practical Marks		TOTAL
		End Semester Exam (ESE)	Progressive Assessment (PA)	ESE	PA	
		70	30	25	25	

Study Material (that will be distributed to the Students)			
Notes (In Question & Answer Format with Solved Examples)	Graded Questions (GQ)	Past Exam Questions (EQ)	Past Exam Paper Solutions (EQ Solutions)

Tentative Lesson Plan

Week	Unit No.	Topic	Weightage (Marks)			
			R Level (R=Remember)	U Level (U=Understand)	A Level (A=Apply & Above)	Total marks
1.	I	Introduction	2	2	4	8
2.		Program Logic Development				
3.		Program Logic Development				
4.	II	Basics of C Programming	2	4	4	10
5.		Basics of C Programming				
6.	III	Control Structures	2	2	8	12
7.		Control Structures				
Revision + Doubt Solving Session (For PT-I)						
8.	III	Control Structures				
9.		Array				
10.	IV	Array	2	2	10	14
11.		Structure				
12.	V	Functions	2	4	8	14
13.		Functions				
Revision + Doubt Solving Session (For PT-II)						
14.	VI	Pointers	2	2	8	12
*15.		Pointers				

Test will be conducted on each Topic after the Topic gets over.
 Model Solutions will be distributed immediately after the exams.
 Needless to say, attendance for these Unit Tests is Mandatory.
 4. Tests will be supervised by the Subject Faculty.

Note: ♦ *Extra Lectures, if required will be engaged and will be decided in consultation with the Students.

♦ **Personal Doubt Solving:** Personal Doubt Solving sessions will be held after each lecture.

Topic for Test @ Vidyalankar	Test-1	Test-2	Test-3	Test-4
	Basics of C Programming	Control Structures	Array and Structure	Function

Note: Preliminary Exam: Preliminary exam will be held before the MSBTE Exam. Exact schedule will be informed to students in the Class.

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Note: Sem. II MSBTE Final Theory Exam is likely to be held from **11 April**.

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Group	Subject	MSBTE Examination Scheme				
		Theory Marks		Practical Marks		TOTAL
		Computer	Basic Electronics	End Semester Exam (ESE)	Progressive Assessment (PA)	
70	30			25	25	

Study Material (that will be distributed to the Students)			
Notes (In Question & Answer Format with Solved Examples)	Graded Questions (GQ)	Past Exam Questions (EQ)	Past Exam Paper Solutions (EQ Solutions)

Tentative Lesson Plan

Week	Unit No.	Topic	Weightage (Marks)			
			R Level (R = Remember)	U Level (U = Understand)	A Level (A = Apply & Above)	Total marks
1.	II	Introduction	4	4	8	16
2.		Semiconductor Diodes				
3.		Rectifiers				
4.		Applications of Diodes				
5.		Applications of Diodes				
6.	III	Bipolar Junction Transistor	4	6	8	18
7.		Bipolar Junction Transistor				
Revision + Doubt Solving Session (For PT-I)						
8.	IV	Bipolar Junction Transistor	2	3	6	11
9.		Field Effect Transistor				
10.		JFET				
11.		MOSFET				
12.	V	Sensors and Transducers	3	4	6	13
13.		Sensors and Transducers				
Revision + Doubt Solving Session (For PT-II)						
14.	I	Electronics Components and Signals	2	4	6	12
15.		Electronics Components and Signals				

Test will be conducted on each Topic after the Topic gets over.
 Model Solutions will be distributed immediately after the exams.
 Needless to say, attendance for these Unit Tests is Mandatory.
 4. Tests will be supervised by the Subject Faculty.

Note: ♦ Extra Lectures, if required will be engaged and will be decided in consultation with the Students.

♦ **Personal Doubt Solving:** Personal Doubt Solving sessions will be held after each lecture.

Topic for Test @ Vidyalankar	Test-1	Test-2	Test-3
	Diodes & Their Applications	Bipolar Junction Transistor	Field Effect Transistor

Note: Preliminary Exam: Preliminary exam will be held before the MSBTE Exam. Exact schedule will be informed to students in the Class.

PT Exam (MSBTE):

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Group	Subject	MSBTE Examination Scheme				
		Theory Marks		Practical Marks		TOTAL
		Computer	Elements of Electrical Engineering	End Semester Exam (ESE)	Progressive Assessment (PA)	
		70	30	25	25	

Study Material (that will be distributed to the Students)			
Notes (In Question & Answer Format with Solved Examples)	Graded Questions (GQ)	Past Exam Questions (EQ)	Past Exam Paper Solutions (EQ Solutions)

Tentative Lesson Plan

Week	Unit No.	Topic	Weightage (Marks)			
			R Level (R=Remember)	U Level (U=Understand)	A Level (A=Apply & Above)	Total marks
1.	I	Introduction	2	4	4	10
2.		Magnetic Circuits				
3.		Magnetic Circuits				
4.	II	AC Fundamentals	2	4	4	10
5.		AC Fundamentals				
6.		AC Fundamentals				
7.	III	Polyphase AC Circuits	2	4	4	10
Revision + Doubt Solving Session (For PT-I)						
8.	III	Polyphase AC Circuits				
9.	IV	Transformer	4	4	6	14
10.		Transformer				
11.		DC Motors				
12.	V	Fractional Horse Power (FHP) Motors	4	4	6	14
13.		Fractional Horse Power (FHP) Motors				
Revision + Doubt Solving Session (For PT-II)						
14.	VI	Protective Devices	2	4	6	12
*15.	VI	Switchgear				

❖ Test will be conducted on each Topic after the Topic gets over.
 ❖ Model Solutions will be distributed immediately after the exams.
 ❖ Needless to say, attendance for these Unit Tests is Mandatory.
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Note: ♦ Extra Lectures, if required will be engaged and will be decided in consultation with the Students.
 ♦ **Personal Doubt Solving:** Personal Doubt Solving sessions will be held after each lecture.

Topic for Test @ Vidyalankar	Test-1	Test-2	Test-3
	Magnetic Circuits	AC Fundamentals	Polyphase AC Circuits

Note: Preliminary Exam: Preliminary exam will be held before the MSBTE Exam. Exact schedule will be informed to students in the Class.

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