

School of Engineering and Applied Science

B.Tech. ELECTRICAL Semester VI Major Assignment

Important Instructions to Student:

- 1. Last date for Assignment Submission **30-May-2020**
- 2. This assignment carries the major **weight age of 50 Marks**. Kindly prepare it very carefully and in a very detailed manner. For any help in this regard, kindly contact your faculties.
- 3. Front Page of Assignment should clearly include details like:
 - a. Your Name
 - **b.** UID Number
 - c. Subject
 - **d.** Class
 - e. Semester

In the event of no such information, we may not be able to assign marks for your assignment, for which responsibility lies with students.

- 4. You can write and submit an assignment through any of the following options:
 - Handwritten Assignment Prepare softcopy of your assignment through suitable apps and send the assignment as one PDF to your respective faculty as mentioned above.
 - b. Typed Assignment Prepare Assignment with following font setting and submit the assignment to your respective faculty as mentioned above.
 - i. Font Type Times New Roman or Arial
 - ii. Headings Font Size 14
 - iii. Text (Except Heading) 12
 - iv. Normal Margin and Line Spacing maximum of 1.15
- 5. After this lockdown ends, you all have to submit the physical assignment copies to your respective Faculties. So, keep the assignment carefully for submission.
- 6. While submitting assignment through email, kindly use the subject line as Name of the Programe_Name of Course/Branch_Semester_Name of the Subject. For Example B.Tech._Electrical_IV_Degital Electronics and Microprocessor.



U	als & Systems - VI	Mode of Submission: jaydeep.sejpal@gmail.com	
Prof	. Jaydeep Sejpal	Submit it within time limit, after that no submission will be accepted	
1.		dard test signals and sketch them in continuous time and discrete time lse function (2) Unit step function (3) Unit Ramp function (4) Shifted Sinusoidal signal	
2.	Draw following Signals $x(n) = \{1,2,3,4,5,6\}$ (arrow is at 3)		
	1.) $y(n)$ 2.) $y(n) = x(n+3)$ 3.) $y(n) = x(n-3)$ 4.) $y(n) = x(-n+3)$		
3	What do you understand by System Realization (it includes Direct form 1 and Direct form 2) By example.		
4	Explain the types of representation of Discrete Time Signals with examples		
5.	Explain Z transform with its expression and application.		
Elen	nents of Electrical	Mode of Submission: jaydeep.sejpal@gmail.com	
Desig	gn - VI	Submit it within time limit, after that no submission will be accepted	
Prof	. Jaydeep Sejpal		
1.	Explain the Principles	of Electrical Machine Design	
2.	Draw the construction	of squirrel cage rotor of induction motor and explain	
		State the output equation for Synchronous machine.	
3.	State the output equation	ion for Synchronous machine.	
3. 4.		ion for Synchronous machine. tween power and distribution transformer.	
4.	Give a comparison be		
4. 5. Elec t	Give a comparison be Explain in detail abou	tween power and distribution transformer. t Transformer Cooling and Construction. Mode of Submission: jaydeep.sejpal@gmail.com	
4. 5. Elect	Give a comparison be Explain in detail abou trical Drives - VI Jaydeep Sejpal	tween power and distribution transformer. t Transformer Cooling and Construction. Mode of Submission: jaydeep.sejpal@gmail.com	
4. 5. Elect Prof.	Give a comparison be Explain in detail abou trical Drives - VI Jaydeep Sejpal Draw the block diagra	tween power and distribution transformer. t Transformer Cooling and Construction. Mode of Submission: jaydeep.sejpal@gmail.com Submit it within time limit, after that no submission will be accepted	
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4. 5. Elect Prof. 1. 2.	Give a comparison be Explain in detail abou trical Drives - VI Jaydeep Sejpal Draw the block diagra Explain braking types Draw the curve for co	tween power and distribution transformer. It Transformer Cooling and Construction. Mode of Submission: jaydeep.sejpal@gmail.com Submit it within time limit, after that no submission will be accepted am for electric drives (part of electric drives) of DC motor braking, and explain dynamic braking in detail	
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Utiliz	trical Power zation and Traction . Jaydeep Sejpal	Mode of Submission: jaydeep.sejpal@gmail.com (Submit it within time limit, after that no submission will be accepted)
1.	Explain illumination scheme with different type of illumination scheme	
2.	Explain DC system of track electrification.	
3.	Write down the advantages of straight electric drive system	
4.	Brief short note on Indirect resistance	
5.	What is Factors to be considered for design of illumination scheme	

NOTE: After completing your assignments, contact your respective faculty member and submit the assignment for assessment.