

## School of Engineering and Applied Science

## B.Tech II All Semester II Major Assignment

## **Important Instructions to Student:**

- 1. Last date for Assignment Submission 30-May-2020
- 2. This assignment carries major **weightage 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 assignment through any of the following options:
  - a. 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 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.
- While submitting assignment through email, kindly use subject line as Name of the Programe\_Name of Course/Branch\_Semester\_Name o the the Subject. For Example B.Tech.\_Mechanical\_IV\_Theory of Machines



English Communication and Life Skills – II		Mode of Submission Email – rbs.raiuniversity@gmail.com	
Prof.	Rakhi Pandey	Subject Line: B.Tech. All II ECLS-II	
1.	Describe SQ3R study method in detail.		
2.	Mention all the helping verbs		
3	Explain reading techniques in detail		
4	Mention 10 habits that need to be developed		
5.	Explain the use of punctuation while using infinitive		
MAT	THEMATICS-II	Mode of Submission : Email or Whatsapp Group	
Prof.	Vardan Parmar	Email – https://forms.gle/vksXw78bdXTjVk119	
		Subject Line: B.Tech. All II	
1.	Show that		
	$\int_{a}^{b} (x-a)^{m-1} (b-x)^{n-1} dx = (b-a)^{m+n-1} \beta(m,n) = (b-a)^{m+n-1} \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$		
2.	Show that		
	$\beta(m,n) = \frac{(m-1)!(n-1)!}{(m+n-1)!}$		
3.	Show that $\beta(m,n) = \int_0^1 \frac{x^{m-1} + x^{n-1}}{(1+x)^{m+n}} dx.$		
4.	Evaluate $\int_0^1 \int_0^{1-y} x^{m-1} y^{n-1} dx dy.$		
5.	Integrate $f(x, y) = x^2 + y^2$ over region with vertices (0,0) (1,0) (0,1).		
ENG	INEERING	Mode of Submission:	
CHE	MISTRY	Link: https://forms.gle/N7f9ev3kTPqwKDxh7	
Prof.	Ravi Prajapati	Subject Line: B.Tech. All II	
1.	Give the differences of the following.		
	(1).Metallic conductor and electrolytic conductors. (II) Thermonlastics polymore and thermosotting polymore		
2	Explain electro chemical cell		
2	Discuss about any two dry correction		
<u>э.</u> Л	Discuss BUNA-S rubber in detail		
5	Explain Vulcanization and their advantages		
5.	Explain valeanization and then advantages.		
ENG	INEERING	Mode of Submission: google Form	
MEC	CHANICS	Email: https://forms.gle/TUfhyxpRB8uXdWrCA	
Dr. I	D.M.Patel	Subject Line: B.Tech. All II	
1.	Six forces 2 kN, 3 kN, 4 kN, 5 kN, 6 kN, and 7 kN respectively act outwards from the centre of		
	regular hexagon towards its corner. Determine the magnitude and direction of the resultant.		
2.	of the vertex of a regular hexagon, towards the other vertices, taken in order as shown in fig		
L	or all vertex of a regular heragon, to wards the other verteels, taken in order us shown in rig.		









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