**Biology for Engineers: Group Activity 10M**

Following are Some key biological phenomenon in which basic principles of Physics and Chemistry are highly optimized. You have to create an “Information Capsule”, a brochure with graphic summary and key information about the biological phenomenon.

Extra points if your Information Capsule highlights the physics and chemistry and any other anatomical optimization in the context of the Biological phenomenon.

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| **Sr No** | **Topic** |
| **1** | **Nerva Impulse and Action Potential** |
| **2** | **Animal Senses: Vision** |
| **3** | **Animal Senses: Hearing** |
| **4** | **Animal Senses: Smell** |
| **5** | **Animal Senses: Touch and Taste** |
| **6** | **Cardiac Cycle OR rhythms of heart** |
| **7** | **Blood Pressure** |
| **8** | **Signaling Networks within cell** |
| **9** | **Sympathetic and Parasympathetic Nervous System** |
| **10** | **Basis of Movement: Nerve and Muscle junction** |
| **11** | **Sensory systems in Plants** |
| **12** | **Emotions and Brain: Featuring Amygdala** |
| **13** | **Human Memory: Types and storage** |
| **14** | **Biomimicry in Nature** (not to be confused with Biomimetics which is biomimicking technologies) |
| **15** | **Biological Clock: Role of Hypothalamus** |
| **16** | **How enzymes work: ways of enzyme action** |
| **17** | **Filtration and Osmotic balance: Role of Kidney** |
| **18** | **Bio-electricity** |

**Instructions:**

1. **Work in Groups of 10 members each**. Form groups and **fill details of group members with name and MIS, in front of topic of interest, on shared google sheet.**
2. Submit **PDF** with file name as: **Group No\_branch (and division in case of COMP students)**
3. PDF must contain 3 Pages**: 1st page: Group Members Info- Name MIS, Branch, Division and Topic; 2nd -3rd Page: Graphic summary (Image) and description, information and references.**
4. **Upload on your branch specific link on moodle and only once**; by anyone of the group member**.**
5. **More weightage will be given to the content of information of the brochure rather than the design while assessment.**
6. **Marks will be deducted if submission is not done according to instructions.**

**Some Reference Examples:**

**(Note: Your Brochure could be different. Please don’t try to make something identical to these, this is just for reference.)**



