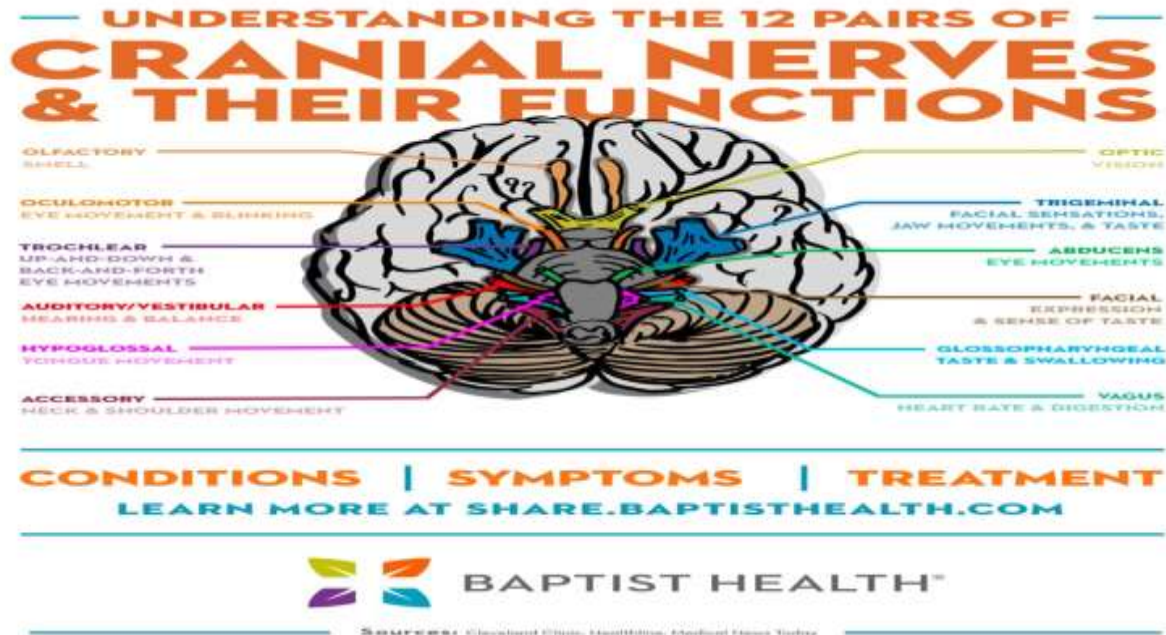




Cranial Nerves



1. **Olfactory Nerve (I)** – Responsible for the sense of smell.
2. **Optic Nerve (II)** – Transmits visual information from the retina to the brain.
3. **Oculomotor Nerve (III)**– Controls most eye movements, pupil constriction, and eyelid elevation.
4. **Trochlear Nerve (IV)** – Controls downward and inward eye movement via the superior oblique muscle.
5. **Trigeminal Nerve (V)**– Provides facial sensation and controls the muscles of mastication (chewing).
6. **Abducens Nerve (VI)**– Controls lateral eye movement (abduction)
7. **Facial Nerve (VII)** – Controls facial expressions, taste in the anterior two-thirds of the tongue, and salivary/lacrimal glands.



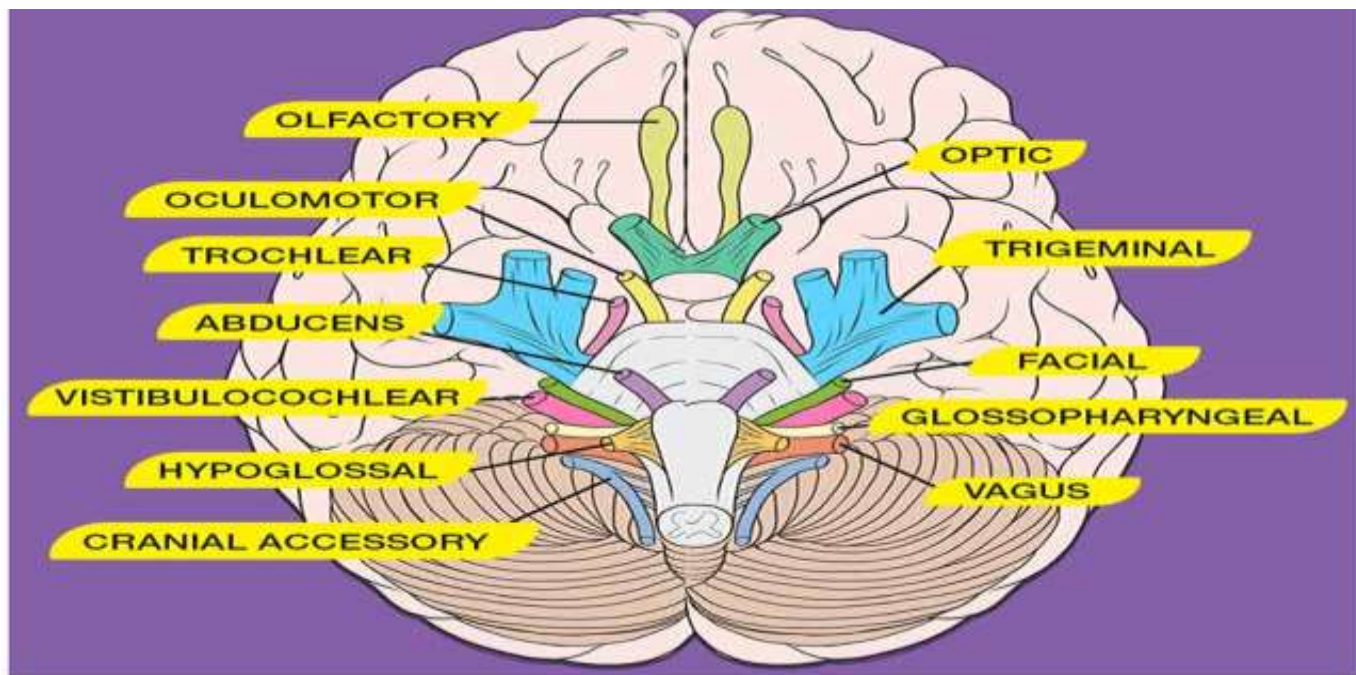
8. Vestibulocochlear Nerve (VIII) – Responsible for balance (vestibular) and hearing (cochlear).

9. Glossopharyngeal Nerve (IX) – Involved in taste and sensation of the posterior one-third of the tongue, swallowing, and blood pressure regulation.

10. Vagus Nerve (X) – Regulates heart, lungs, and digestive organs; controls muscles for speech and swallowing.

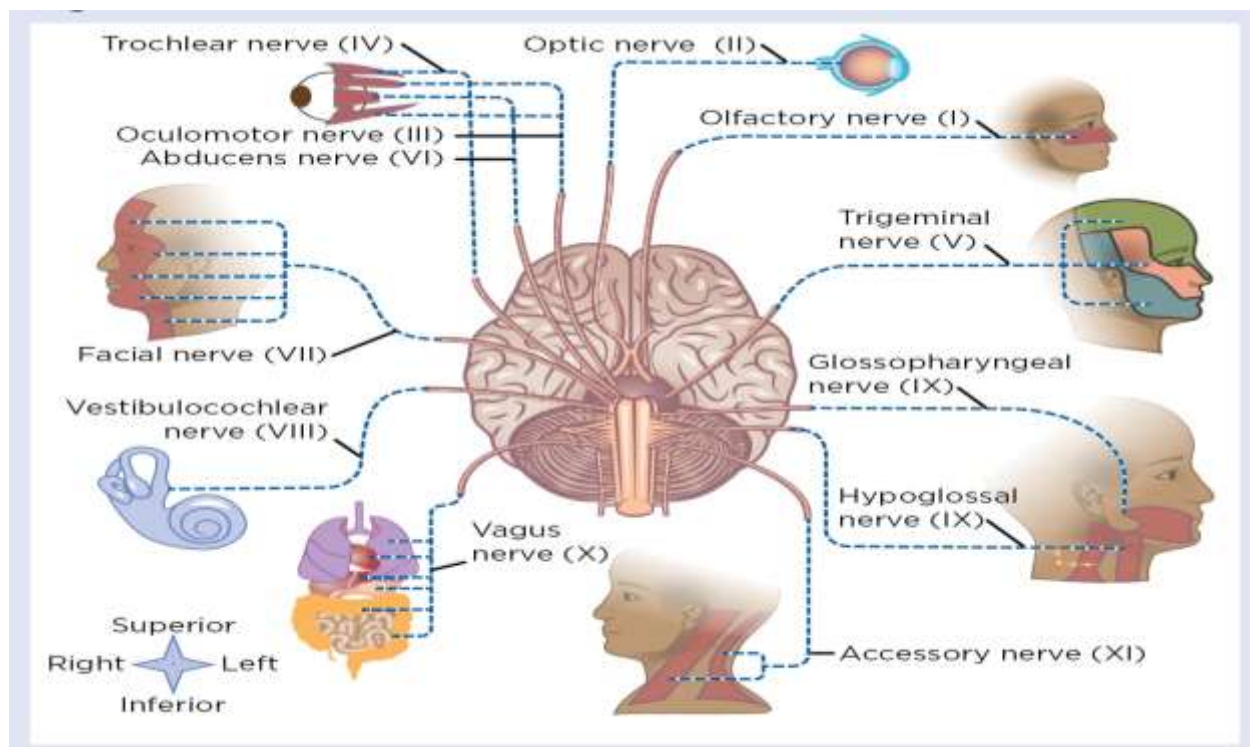
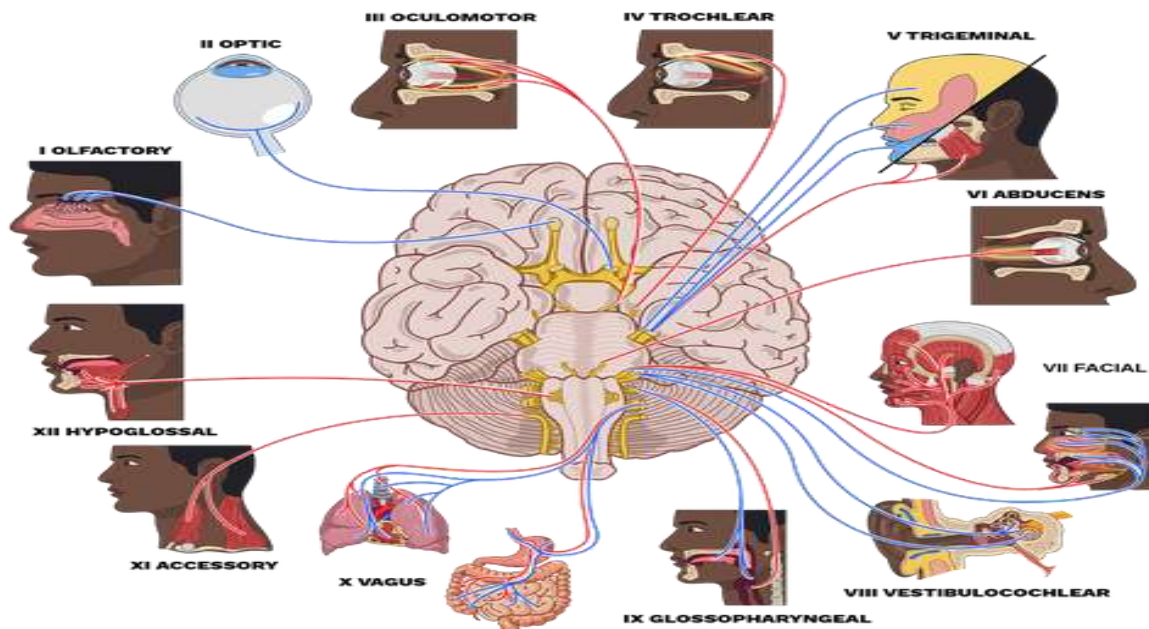
11. Accessory Nerve (XI) – Controls neck and shoulder muscles .

12. Hypoglossal Nerve (XII) – Controls tongue movements for speech, chewing, and swallowing.



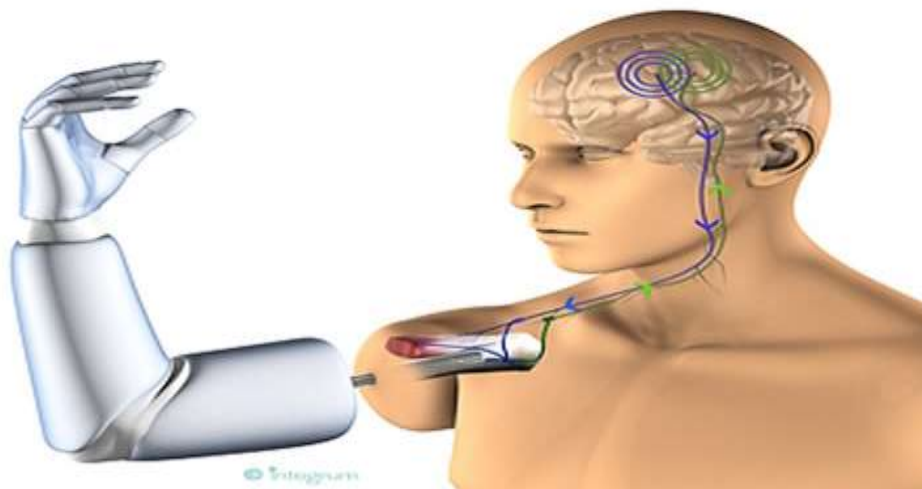
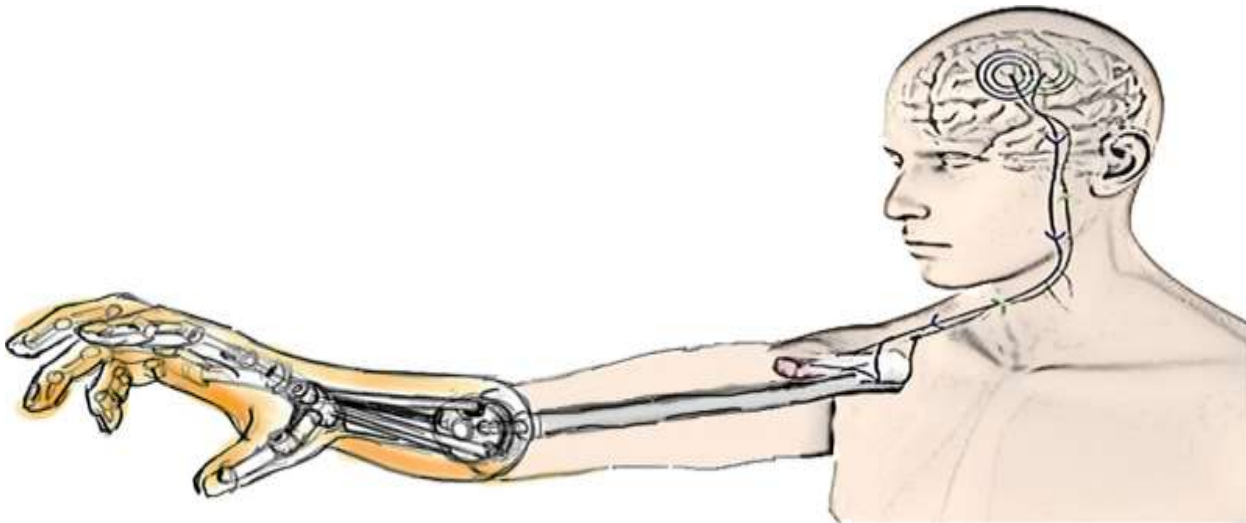


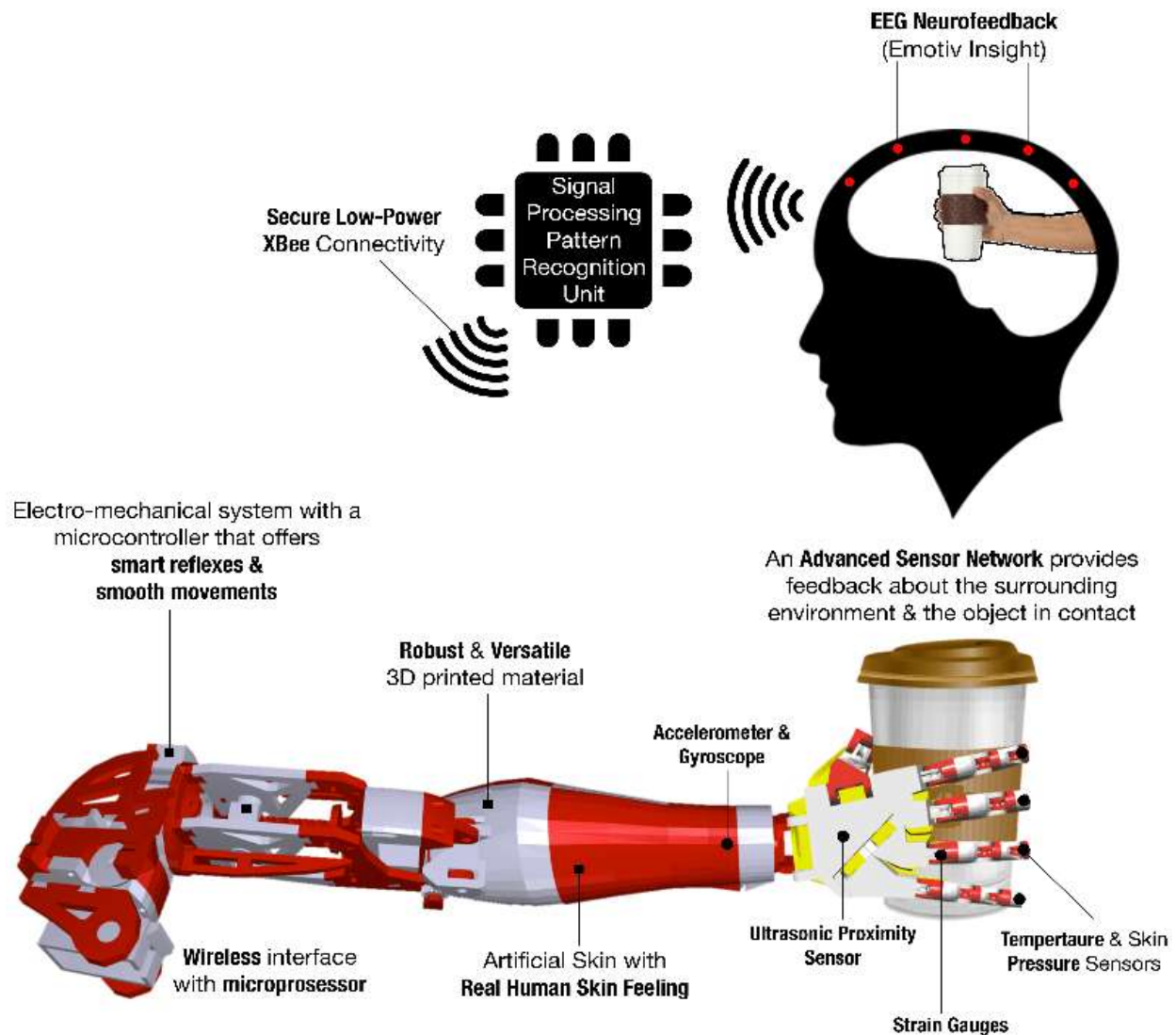
2nd term – Lect. 3





Brain-Controlled Prosthetics





Mind-Controlled Smart Prosthetic Arm