

Kisan Dnyanoday Mandal Gudhe's  
**Homoeopathic Medical College**  
& Hospital Shirpur, Dist.Dhule

**ADVANCE TEACHING PROGRAMME (ATP)**

**(ACADEMIC YEAR :2022-23)**

**Subject –** *Physiology*

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# Homoeopathic Medical College

& Hospital Shirpur, Dist.Dhule

## ADVANCE TEACHING PROGRAMME

Month	Topic
	<ul style="list-style-type: none"><li>- Introduction of Physiology .</li><li>- Human Embryology &amp; Genetics .</li><li>- Muscle Physiology .</li><li>- Changes, Properties , Type .</li><li>- Properties &amp; structure of muscle .</li><li>- Applied Physiology of muscle .</li></ul>
	<ul style="list-style-type: none"><li>- Introduction of CVS .</li><li>- Component of cardiac cycle .</li><li>- Heart sounds &amp; murmurs .</li><li>- Electrocardiogram .</li><li>- Reading &amp; Lead Interpretation of ECG .</li><li>- Cardiac output .</li><li>- Cardiac Arrhythmias .</li><li>- Blood Physiology .</li></ul>
	<ul style="list-style-type: none"><li>- Regional circulation .</li><li>- Pulse &amp; its variations .</li><li>- Regulation - Nervous , chemical &amp; Hormonal .</li><li>- Respiratory system - Introduction .</li><li>- Components , Capacities &amp; Volumes .</li><li>- Regulations &amp; controls of R.S .</li><li>- Applied Physiology of Respiratory systems .</li></ul>

Month	Topic
	<ul style="list-style-type: none"> <li>- Introduction of G.I.T.</li> <li>- Components.</li> <li>- Juices.</li> <li>- Histology.</li> <li>- Terminology.</li> <li>- Roles of liver &amp; its secretion of Bile.</li> <li>- Applied Physiology of G.I.T.</li> </ul>
	<ul style="list-style-type: none"> <li>- Jaundice &amp; Gall stones.</li> <li>- Introduction of Metabolism.</li> <li>- Digestion of carbohydrates.</li> <li>- Digestion of Lipids.</li> <li>- Digestion of Proteins.</li> <li>- Hormonal Influences.</li> <li>- Water metabolism.</li> <li>- Vitamins.</li> </ul>
	<ul style="list-style-type: none"> <li>- Fat soluble vitamins.</li> <li>- Water soluble vitamins.</li> <li>- Minerals in Body.</li> <li>- Special senses.</li> <li>- Vision.</li> <li>- Olfaction.</li> <li>- Taste &amp; Taste buds.</li> <li>- Hearing &amp; Speech.</li> </ul>

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Month	Topic
	<ul style="list-style-type: none"><li>- Endocrinology</li><li>- Hormones of Endocrine Glands.</li><li>- Applied physiology of Glands.</li><li>- Organs of Endocrine.</li><li>- Regulation of Hormones.</li></ul>
	<ul style="list-style-type: none"><li>- Nervous System Introduction.</li><li>- Components &amp; functions.</li><li>- Regional parts.</li><li>- Regulations.</li><li>- Inter connections.</li><li>- Applied Physiology.</li><li>- Balance &amp; Equilibrium.</li></ul>
	<ul style="list-style-type: none"><li>- Basal metabolic Rate. (BMR).</li><li>- Balance Diet.</li><li>- Role of vitamins.</li><li>- Proteins</li><li>- Lipids.</li><li>- Carbohydrates. in balance Diet.</li><li>- Fats.</li></ul>

Month	Topic
	Revision of All Topics.