

**CALENDAR-THEMATIC PLAN**  
**Independent work on the elective course**  
**"Modern Methods of Investigation Biological Systems" for students**  
**III year of the Faculty of Pharmacy for the 5th semester of 2021/2022 academic year**

<b>№</b>	<b>Topic</b>	<b>Hours</b>
<b>1</b>	Biological systems. Influence of biologically active substances on biological systems of different level of hierarchy, methods of its estimation.	6
<b>2</b>	High performance liquid chromatography: basics, use	6
<b>3</b>	Infrared spectroscopy, UV spectroscopy, atomic adsorption spectrometry	6
<b>4</b>	Electronic paramagnetic resonance, principles, features, use.	6
<b>5</b>	Nuclear magnetic resonance spectroscopy, basics, principles	6
<b>6</b>	using	6
<b>7</b>	Mass spectrometry in the search for new drugs and drug research	6
<b>8</b>	Combination of chromatographic and mass spectrometric methods	6
<b>9</b>	Methods of spectroscopy in the near infrared region.	6
<b>10</b>	Crystallographic methods	6
<b>Total</b>		<b>60</b>