

# SYLLABUS

<b>List of Topics (Lectures)</b>	<b>No. of Weeks</b>	<b>Contact hours</b>
Properties of bond between metals and carbon	2	4
Preparation of organometallic compounds of the main elements group	2	4
Study of the complexes of the 1 <sup>st</sup> elements series (first-fifth) group	2	4
Identification of main function groups and 18 electron rule	1	2
Principles of the 18 electron rule and the ligand rule	1	2
Nature of the olefins and CO bonds with metallic ions	1	2
Method to prepare pi- transition elements complexes	1	2
Method to prepare sigma- transition elements complexes	1	2
Reactions of the transition organometallic complexes	2	4
Catalytic role of the transition metallic complexes	2	4
<b>Total</b>	<b>15</b>	<b>30</b>