

Modules in the course

Module no.	Projected Date	Title of the module
M1	Aug 7	<u>Introduction to Organometallic Compounds, History – Importance Projections –</u>
M2	Aug 9	Metal carbonyl complexes
M2	Aug 14	Metal carbonyls contd. Alternatives to CO { CS, CSe, CR ₂ , RNC }
M 3	Aug 15	Metal carbenes and "NHC"
M4	Aug 16	Phosphines
M4		Basic reaction types – ligand substitution – Dissociation - Basics of Synthesis
M 5		Metal alkyl complexes
M 6		Metal hydrides
M 7		M.O. theory of Electron precise & Electron deficient systems 3C-2e bond, 3C-4e bond
M 8		Insertion reaction – mechanism of CO insertion
M 9		Olefin complexes:
M 10		Alkenes contd.
M 10		n dienes and polyenes
M11		Reactivity changes in coordinated ligands–nucleophilic attack on ligands
M12		Metal-allyls - η^3 complexes
M13		Cyclopentadienyl - h^5 – sandwich complexes
M14		Oxidative addition & Reductive elimination Vaska's complex

[illegible]