

# UTKALMANI GOPABANDHU INSTITUTE OF ENGINEERING, ROURKELA



## LESSON PLAN

**SUBJECT-ORGANIC CHEMISTRY**



**PREPARED BY- RAGHUNATH MARANDI  
DEPARTMENT OF CHEMICAL  
ENGINEERING**

	<b>Topics covered</b>
WEEK 1	Scope of organic chemistry
	Differentiate between organic compound and inorganic compounds
	Importance of organic Chemistry in modern life.
	Classification and sources of organic compounds
WEEK 2	IUPAC naming of mono functional and polyfunctional Organic Compound.
	IUPAC naming of monofunctional and polyfunctional Organic Compound.
	IUPAC naming of monofunctional and poly functional Organic Compound.
WEEK 3	Concept, type and example of isomerism
	Methods of preparations, properties and uses of $\text{CH}_4$ and $\text{C}_2\text{H}_5$
	Methods of preparations, properties and uses of $\text{CH}_4$ and $\text{C}_2\text{H}_5$
WEEK 4	Methods of preparations properties of ethylene.
	Methods of preparation, properties and uses of acetylene.
	Methods of preparation, properties and uses of acetylene.
	Methods of preparation properties and uses of methanol and ethanol
WEEK 5	Methods of preparation properties and uses of methanol and ethanol
	Methods of preparation properties and uses of methanol and ethanol
	Methods of preparation properties and uses of methanol and ethanol
	Absolute alcohol and denatured alcohol
WEEK 6	Absolute alcohol and denatured alcohol
	Methods of preparation properties and uses of formic acid and acetic acid.
	Methods of preparation properties and uses of formic acid and acetic acid.
	Methods of preparation properties and uses of formic acid and acetic acid.
WEEK 7	Methods of preparation properties and uses of formic acid and acetic acid.

	Methodsofpreparationpropertiesandusesofformaldehydeandacetone.
	Methodsofpreparationpropertiesandusesofformaldehydeandacetone.
WEEK 8	Methodsofpreparationpropertiesandusesofformaldehydeandacetone.
	Methodsofpreparationpropertiesandusesofformaldehydeandacetone.
	Methodsofpreparationpropertiesandusesofformaldehydeandacetone.
WEEK 9	Methodsofpreparation,propertiesandusesof(a) Benzene
	Methodsofpreparation,propertiesandusesof(a) Benzene
	Methodsofpreparation,propertiesandusesof(b) Toluene
WEEK 10	Methodsofpreparation,propertiesandusesof(b) Toluene
	Methodsofpreparation,propertiesandusesofBenzenederivativecompound(a)Phenol(b)Benzaldehyde
	Methodsofpreparation,propertiesandusesofBenzenederivativecompound (a)Phenol
WEEK 11	Methodsofpreparation,propertiesandusesofBenzenederivativecompound (a)Phenol
	Methods of preparation, properties and uses of Benzenederivativecompound (b)Benzaldehyde
	Classificationofcarbohydrates
WEEK 12	Synthesisandinterconversionsofmonosaccharides
	Synthesisand interconversions of monosaccharides
	Synthesisandinterconversionsofmonosaccharides
	Manufacturingproperties andusesofglucose, fructose,sucrose,andstarch.
WEEK 13	Manufacturingpropertiesandusesofglucose,fructose,sucrose,andstarch.
	Manufacturingpropertiesandusesof glucose, fructose,sucrose,andstarch.
	Manufacturingproperties andusesofglucose, fructose,sucrose,andstarch.
WEEK 14	Manufacturingproperties andusesofglucose, fructose,sucrose,andstarch.
	Manufacturingpropertiesandusesofglucose, fructose,sucrose,andstarch.
	Preparation,propertiesandusesofAminoacid
	Preparation,propertiesandusesofAminoacid
WEEK 15	Preparation,propertiesandusesofAminoacid
	Classificationofproteins,Peptides
	Classificationofproteins,Peptides
WEEK 16	Classificationofproteins,Peptides
	Propertiesanduses ofproteins
	Propertiesanduses ofproteins
	Sources,Propertiesandusesoffats
WEEK 17	Sources,Propertiesandusesoffats
	Sources,Propertiesandusesoffats
	Sources,Propertiesandusesoffats
	Sources,Propertiesandusesoffats

**BOOKS FOR REFERENCE:**

- A Text Book of Organic Chemistry by B.S.Bahl, Arun Bahl, S Chand Publication

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