Untitled Note

Notebook:	First Notebook		
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Location:	Kanpur Nagar, Uttar Pradesh, India		

Complete graph

- All connected

Nodes and edges
K regular
Centre
Eccentricity
Radius
LDiameter
Path
Cycle
Degree sequence
Graph isomorphism
Euler cycle

- A cycle in which each edge occurs exactly once.
- Each node must have even degree

Euler path

- Iff exactly 2 are odd

Bipartit

- Iff No odd length cycle exists.
- Complete bipartit graph

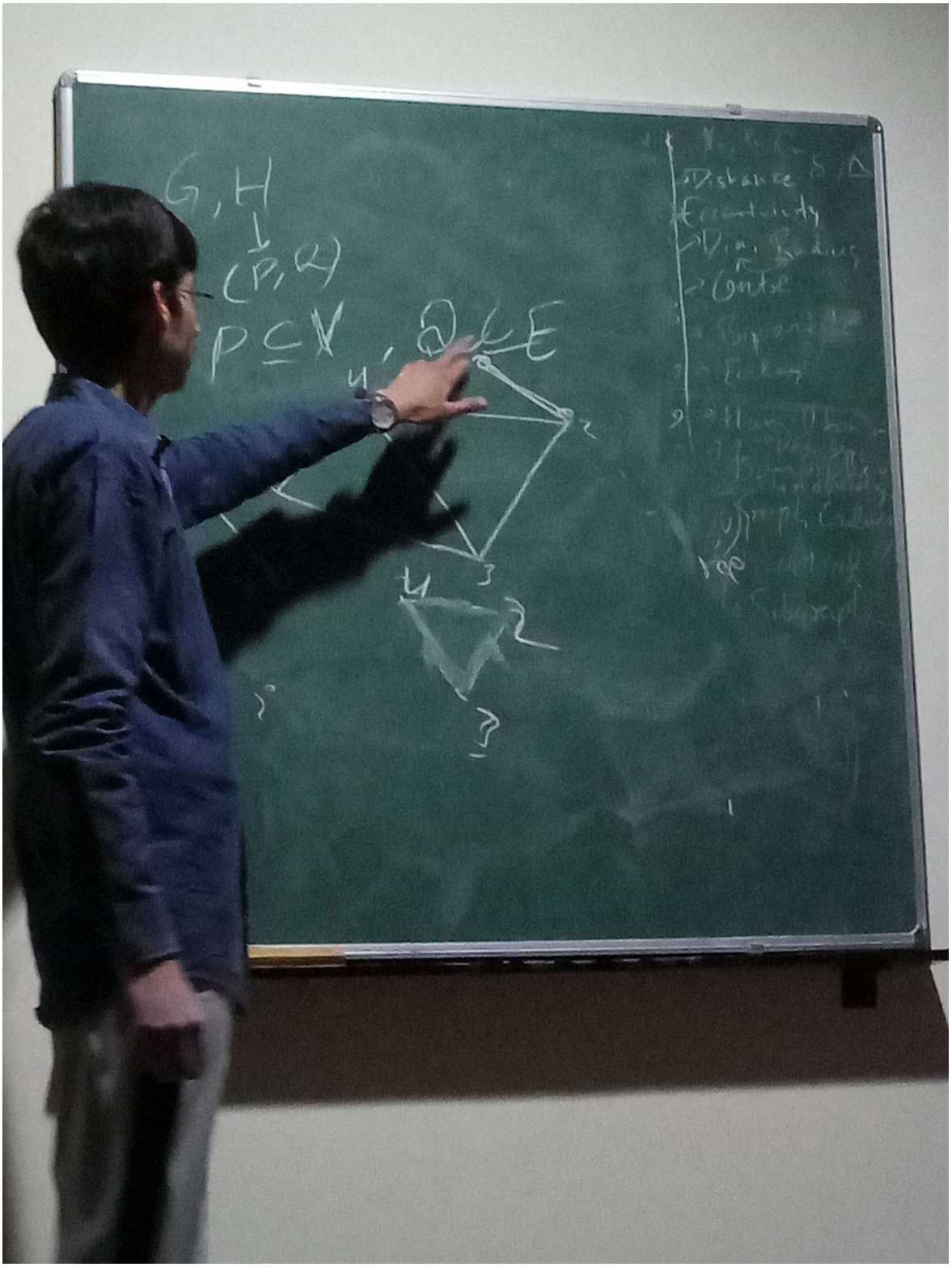
Hamiltonian cycle

- Each node occurs once
- Bridge shouldn't exist

Adjacency matrix

- Same for isomorphic graphs

Subgraph



Subgraph

- General
- Induced subgraph (edges are preserved)

Colouring

- Valid colouring-colour of adjacent nodes different
- Chromaticity(n)-min no pf colours for valid colouring

- N critical graph
  - When all it's proper subgraph has<n chromaticity
- Chromaticity of even cycle is 2 and odd is 3