Network Function Virtualization (NFV)

Unit 1: Introduction. What is NFV? Motivation: what is NFV used for? Benefits of NFV. Enablers for NFV: cloud computing and High Volume Servers. Challenges for NFV.

Unit 2: NFV architecture. NFV concepts. NFV architecture: elements and reference points. Service function chaining. Architecture support for containers and lightweight virtualization.

Unit 3: NFV use cases. VNFIaaS, NFVaaS, NFVPaaS and NFVSaaS. NFV forwarding graphs. Virtualization in mobile environments. Virtualization in the home domain. Virtualization in fixed networks and content distribution networks.

Unit 4: NFV in operation. Lab hands on with OSM and Juju.

Unit 5: NFV and cloud. NFV and SDN.

Unit 6: NFV standardization.