SUBJECT NO-NA21101, SUBJECT NAME- HYDROSTATICS AND STABILITY
LTP- 3-1-0,CRD- 4

SYLLABUS :-

Prerequisite: NoneDefinition of ship hulls and ocean structures; basic ship hydrostatics, metacentric height, Deadweight, capacity and tonnage measurement, numerical integration in Naval Architecture, Hydrostatic calculations and hydrostatic curves- Initial stability, free surface effects, stability at large angles- statical stability at large angles of heel-Intact and damaged stability computations- Damaged stability and its calculation by lost buoyancy and added weight methods- IMO stability criteria- Subdivision and floodable length calculations-Launching calculations-weight and trim calculations- Stability of fully submerged body- Stability regulations- Stability of multibody systems-Pressure integration technique of computing hydrostatic and stability.